FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.				

New 05-SLO-101

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	SLO.		1	22	

P.M. 3.1 / 3.9

INDEX OF SHEETS

Sheet No.		
1		Title Sheet
"	2	Typical Cross Section of Improvement
"	3 - 8	Plan and Profile
"	9	Miscellaneous Structure Details
"	10	Dividing Strip Details
"	11 - 16	San Luis Obispo Creek Culverts
"	17 - 18	Culvert Extensions at Sta. 96+25 and 132+54
"	19 - 22	Standard Structures
"	1 - 60	Cross Sections
"	1 - 2	Mass Diagram

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

PLAN AND PROFILE OF

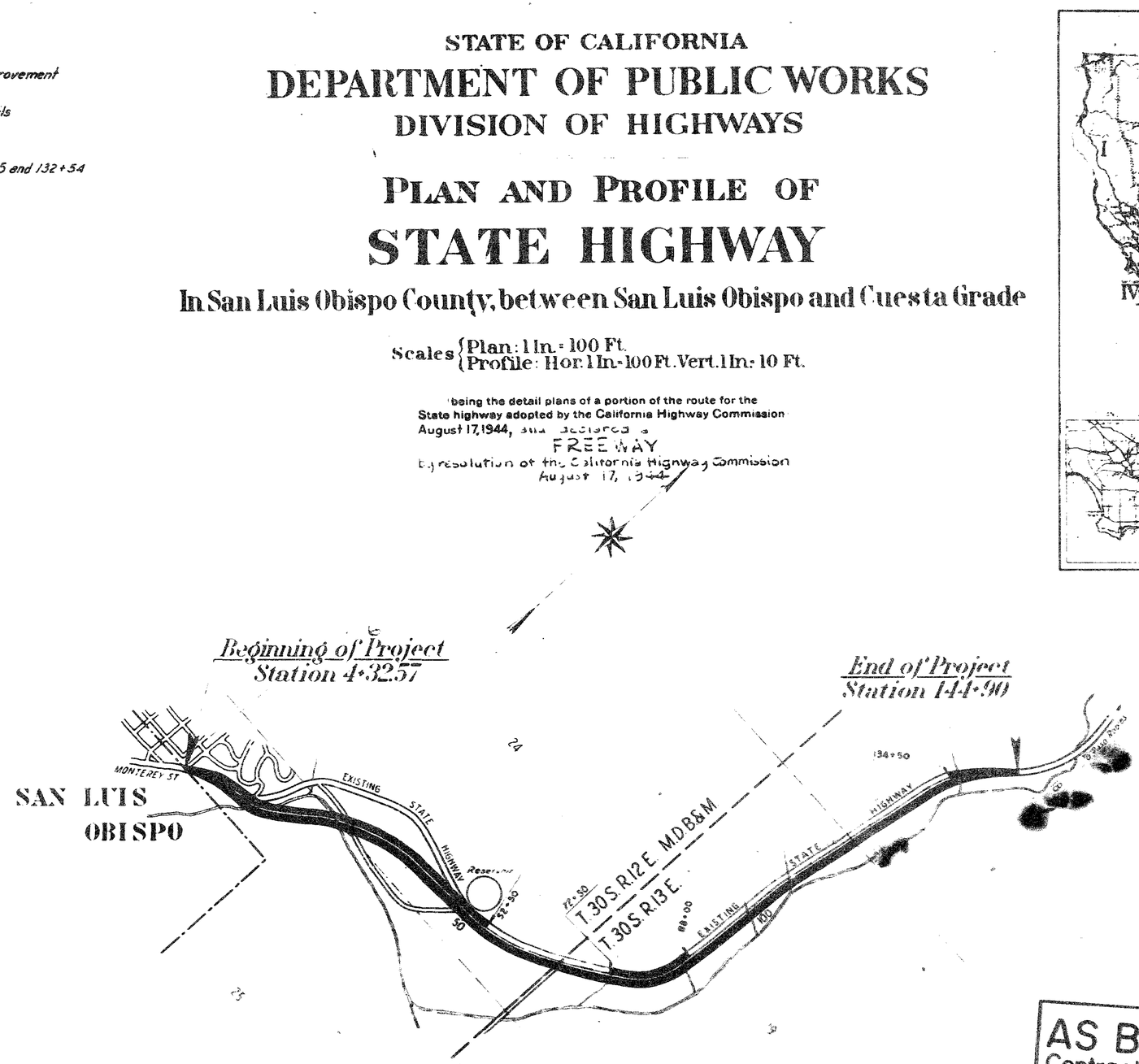
STATE HIGHWAY

In San Luis Obispo County, between San Luis Obispo and Cuesta Grade

Scales { Plan: 1 In. = 100 Ft.
Profile: Hor. 1 In. = 100 Ft. Vert. 1 In. = 10 Ft.

being the detail plans of a portion of the route for the State highway adopted by the California Highway Commission August 17, 1944, and declared a FREEWAY by resolution of the California Highway Commission August 17, 1944

STATE OF CALIFORNIA
KEY MAP



CONVENTIONAL SIGNS

County Line		Bank or Retaining Wall	
City or Town Limits		Levee	
Township Line		Culverts	
Section Line	Note whether Ownership, Section or Grant	Drop Inlet	
Grant Line		Trolley Pole	
Fence		Power Pole	
Guard Rail		Power Tower	
Unfenced Property		Telegraph or Telephone Pole	
Right of Way Line			
Base or Survey Line			
Traveled Way			
Railway Tracks		Marsh	

- SCALE -

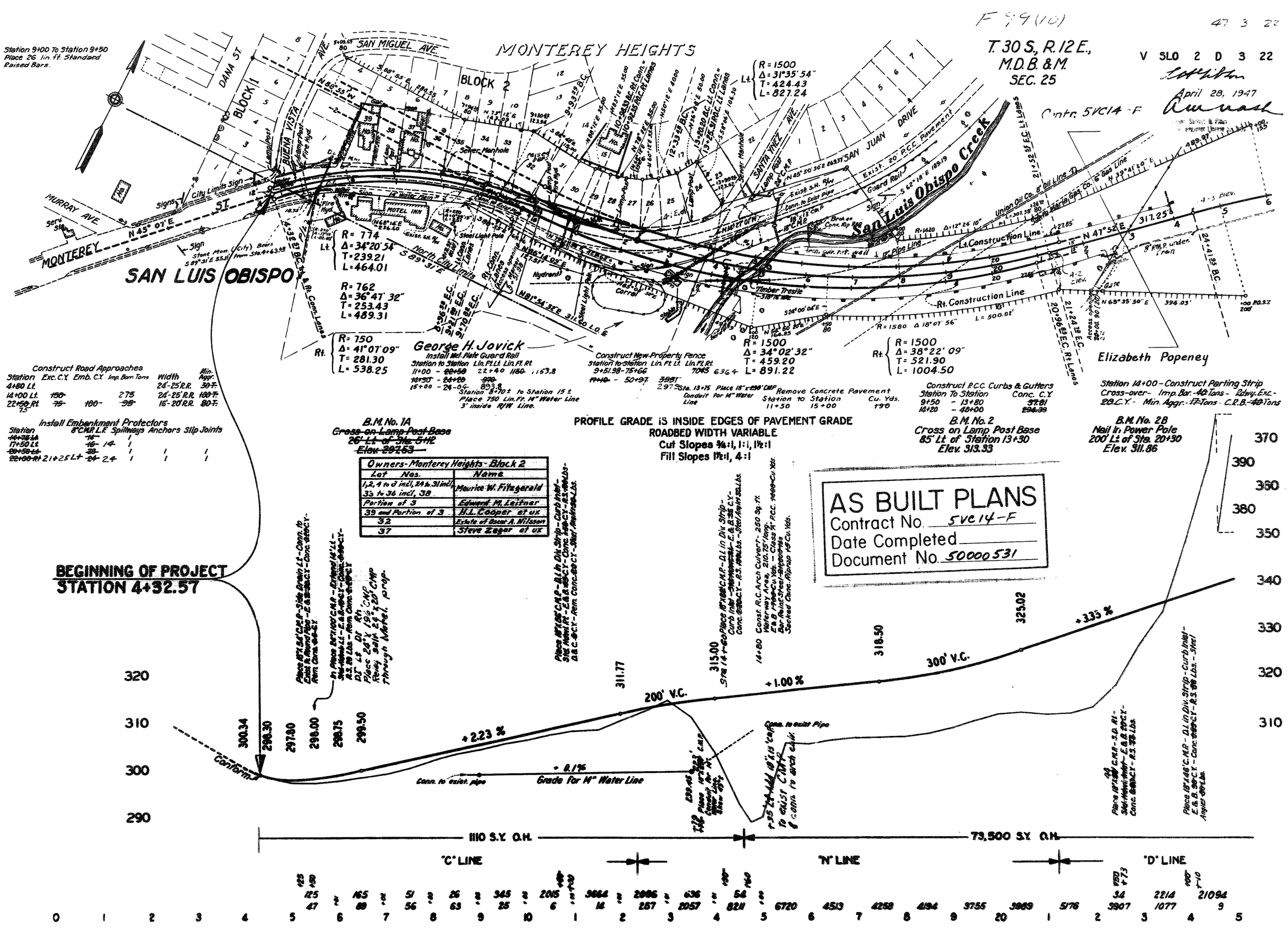
0 4000 8000 FEET

Length of Project 140+00.2 feet = 2.659 Miles

AS BUILT PLANS
Contract No. 5VC14-F
Date Completed
Document No. 50000531

April 25, 1947
District Engineer
Final Recommended
Engineer Surveys & Plans
Approved April 28, 1947
State Highway Engineer
Civil Engineer Certificate 2064
C.H. PURCELL
Director of Public Works

Contr. 5VC14-F



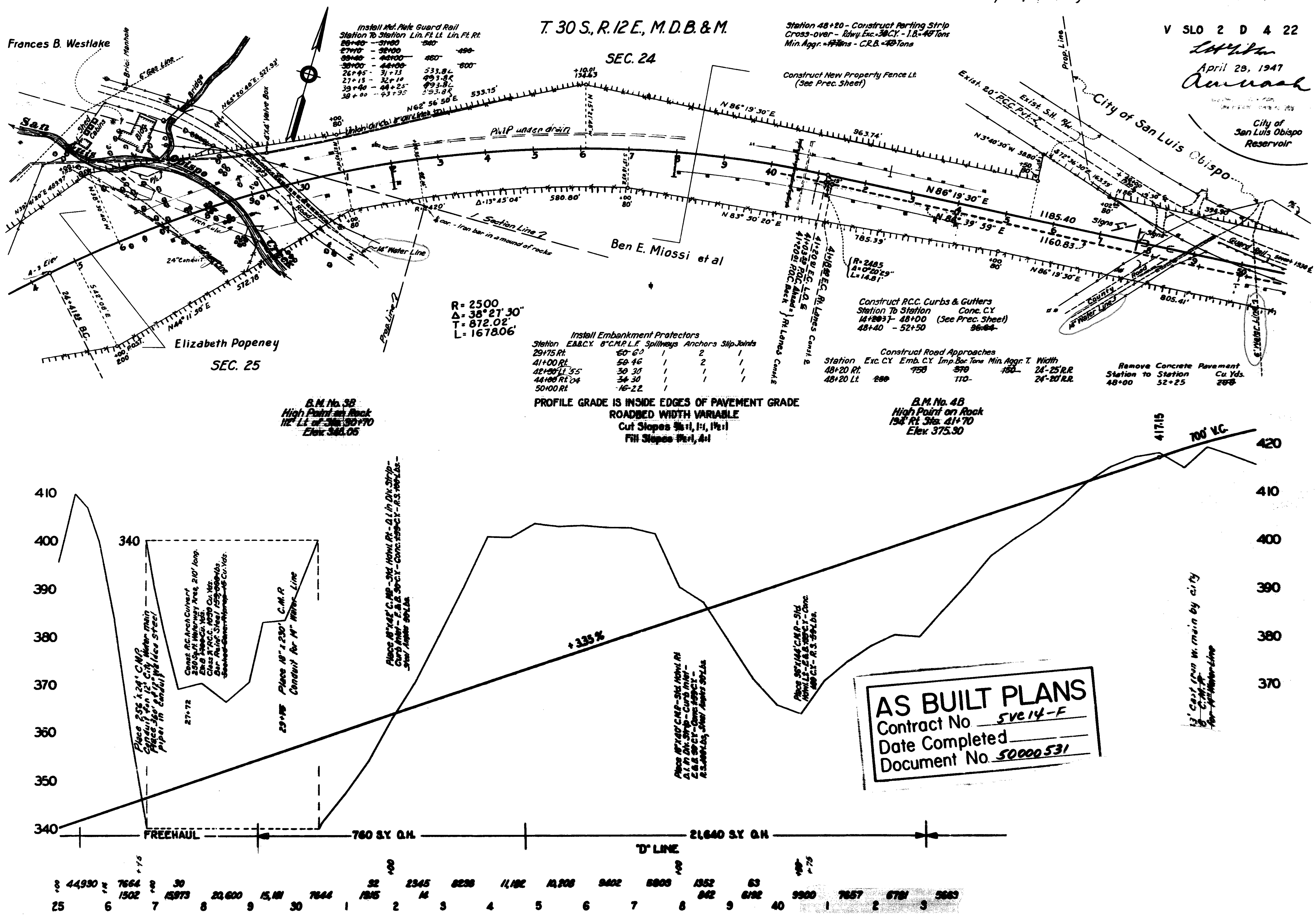
F 99(10)
47 3 22
MONTEREY HEIGHTS
T. 30 S., R. 12 E., M.D.B. & M. SEC. 25
V SLO 2 D 3 22
April 28, 1947
Contr. 5VC14-F
Station 9+00 To Station 9+50 Place 26 lin. ft. Standard Raised Bars.
SAN MIGUEL AVE.
DANA ST.
BLOCK 1
BLOCK 2
BUENA VISTA AVE.
MURRAY AVE.
MONTEREY ST.
SAN LUIS OBISPO
SANTA YNEZ AVE.
SAN JUAN DRIVE
San Luis Obispo Creek
Lt. R = 1500 Δ = 31°35'54" T = 424.43 L = 827.24
Lt. R = 774 Δ = 34°20'54" T = 239.21 L = 464.01
R = 762 Δ = 36°47'32" T = 253.43 L = 489.31
Rt. R = 750 Δ = 41°07'09" T = 281.30 L = 538.25
R = 1500 Δ = 34°02'32" T = 459.20 L = 891.22
Rt. R = 1500 Δ = 38°22'09" T = 521.90 L = 1004.50
Construct Road Approaches
Station Exc. C.Y. Emb. C.Y. Imp. Bar. Tons Width Min. Aggr.
4+80 Lt. 24'-25' R.R. 30 T.
14+00 Lt. 150 275 24'-25' R.R. 100 T.
22+50 Rt. 75 100 95 16'-20' R.R. 80 T.
Install Embankment Protectors
Station 8" C.M.P. L.F. Spillways Anchors Slip Joints
14+75 Lt. 16 1
17+50 Lt. 16 14 1
20+50 Lt. 28 1 1 1
22+00 Rt. 21+25 Lt. 24 24 1 1 1
George H. Jovick
Install Met. Plate Guard Rail
Station to Station Lin. Ft. Lt. Lin. Ft. Rt.
11+00 - 22+50 22+40 1150 1153.8
14+50 - 24+20 970
15+00 - 24-04 893.8
Station 8+70± to Station 15± Place 750 Lin. Ft. 14" Water Line 3' inside R/W Line.
Construct New Property Fence
Station to Station Lin. Ft. Lt. Lin. Ft. Rt.
9+51.98 - 75+66 7043 6364
17+10 - 50+97 3551 2979
Sta. 13+75 Place 18" x 290' CMP Conduit for 14" Water Line
Remove Concrete Pavement
Station to Station Cu. Yds.
11+50 15+00 190
Construct P.C.C. Curbs & Gutters
Station To Station Conc. C.Y.
9+50 - 13+80 37.81
14+20 - 48+00 294.39
Elizabeth Popeney
Station 14+00 - Construct Parting Strip Cross-over - Imp. Bar. - 40 Tons - Rdwy. Exc. - 20 C.Y. - Min. Aggr. - 17 Tons - C.R.B. - 40 Tons
B.M. No. 1A
Cross on Lamp Post Base
26' Lt. of Sta. 5+12
Elev. 297.53
B.M. No. 2
Cross on Lamp Post Base
85' Lt. of Station 13+30
Elev. 313.33
B.M. No. 2B
Nail in Power Pole
200' Lt. of Sta. 20+30
Elev. 311.86
PROFILE GRADE IS INSIDE EDGES OF PAVEMENT GRADE
ROADBED WIDTH VARIABLE
Cut Slopes 3/4:1, 1:1, 1 1/2:1
Fill Slopes 1 1/2:1, 4:1
Owners - Monterey Heights - Block 2
Lot Nos. | Name
1, 2, 4 to 8 incl, 24 to 31 incl, 33 to 36 incl, 38 | Maurice W. Fitzgerald
Portion of 3 | Edward M. Leitner
39 and Portion of 3 | H.L. Cooper et ux
32 | Estate of Oscar A. Nilsson
37 | Steve Zeger et ux
AS BUILT PLANS
Contract No. 5VC14-F
Date Completed
Document No. 50000531
BEGINNING OF PROJECT
STATION 4+32.57
300.34
298.30
297.80
298.00
298.75
299.50
311.77
315.00
318.50
325.02
+2.23 %
+1.00 %
+3.35 %
200' V.C.
300' V.C.
Conform
Conn. to exist. pipe
+0.1%
Grade for 14" Water Line
Conn. to exist Pipe
1110 S.Y. O.H.
73,500 S.Y. O.H.
"C" LINE
"N" LINE
"D" LINE

F-99(1C)   47 4 22   2

V SLO 2 D 4 22

April 28, 1947

T. 30 S., R. 12 E., M.D.B. & M.



Install Met. Plate Guard Rail

Station To Station	Lin. Ft. Lt.	Lin. Ft. Rt.
~~28+40 - 31+80~~	~~540~~	
~~27+10 - 32+00~~		~~490~~
~~39+40 - 44+00~~	~~460~~	
~~38+00 - 44+00~~		~~600~~
26+45 - 31+73	533.8L	
27+13 - 32+10	493.8R	
39+40 - 44+25	493.8L	
38+00 - 43+95	593.8R	

Station 48+20 - Construct Parting Strip Cross-over - Rdwy. Exc. = ~~30~~ C.Y. - I.B. = ~~40~~ Tons Min. Aggr. = ~~17~~ Tons - C.R.B. = ~~40~~ Tons

Construct New Property Fence Lt. (See Prec. Sheet)

Install Embankment Protectors

Station	E.&B.C.Y.	8" C.M.P. L.F.	Spillways	Anchors	Slip Joints
29+75 Rt.		~~60~~ 60	1	2	1
41+00 Rt.		~~50~~ 46	1	2	1
42+~~50~~ Lt. 55		~~30~~ 30	1	1	1
44+~~00~~ Rt. 04		~~34~~ 30	1	1	1
50+00 Rt.		~~16~~ 22	1		

Construct P.C.C. Curbs & Gutters

Station To Station	Conc. C.Y.
14+20.37 - 48+00	(See Prec. Sheet)
48+40 - 52+50	~~36.04~~

Construct Road Approaches

Station	Exc. C.Y.	Emb. C.Y.	Imp. Bor. Tons	Min. Aggr. T.	Width
48+20 Rt.		~~750~~	~~370~~	~~150~~	24'-25' R.R.
48+20 Lt.	~~250~~		~~110~~		24'-20' R.R.

Remove Concrete Pavement

Station to Station	Cu. Yds.
48+00 - 52+25	~~208~~

PROFILE GRADE IS INSIDE EDGES OF PAVEMENT GRADE
ROADBED WIDTH VARIABLE
Cut Slopes ½:1, 1:1, 1½:1
Fill Slopes 1½:1, 4:1

AS BUILT PLANS
Contract No. 5VC14-F
Date Completed ______
Document No. 50000531

F-9910

47 5 22 3

V SLO 2 D 5 22

April 28, 1947

T. 30 S., R. 12 E., M. D. B. & M.

SEC. 24

T. 30 S., R. 13 E.

SEC. 19

City of San Luis Obispo Reservoir

Construct P.C.C. Curbs & Gutters (See Sheet No. 4)

Remove Concrete Pavement

Station	to Station	Cu. Yds.
48+00	52+25	~~200~~

Install Met. Plate Guard Rail Rt.

Station	to Station	Lin. Ft.
59+00	62+38	~~1290~~
62+38	63+38 (Rd. Appr.)	~~200~~
62+38	71+00	~~970~~
50+00	54+53	474.3
64+00	Rd. Appr.	201.4
65+80	69+00	313.8
54+83	63+45	833.8

Construct Road Approaches

Station	Exc. C.Y.	Emb. C.Y.	Imp. Bor. Tons	Min. Aggr. T.	Width
62+38 Rt.	64+00	3000	740	850	24'-25' R.R.
74+92 Rt.	73+37	200	~~55~~		20'-25' R.R.
74+92 Lt.	73+25	~~50~~	~~40~~		20'-20' R.R.
54+73 Rt.		50	40		16'-20' R.R.

Rt. R = 1638, Δ = 24° 45', T = 359.39, L = 707.57

Rt. R = 3038, Δ = 8° 36' 30", T = 228.65, L = 456.44

Rt. R = 1738, Δ = 53° 00', T = 866.53, L = 1607.69

Ben E. Miossi et al

S. Jackson Lowe et ux

State of California

Old Apricot Orchard

Timber Bulkheads

Guard Rail

Corral

Barn

Sign

Gate

Fence

Water Line

Access Opening

Conn. to Exist. Pipe

Exist. S.H.

Exist. 20' P.C.C. Pvt.

Ch. Ch. Area

Const. ℄ R = 1638, Δ = 0° 20' 29", L = 9.76

Install Timber Guide Posts Rt.

Station	To Station	Each	Spacing
62+70	67+30	11	50'
71+00	75+50	~~10~~	50'

Construct Parting Strip Cross-overs

Station	Exc. C.Y.	Imp. Bor. Tons	Min. Aggr. Tons	C.R.B. Tons
62+50	~~30~~	~~40~~	~~17~~	~~10~~
74+92	~~30~~	~~40~~	~~17~~	~~10~~
73+25				

Station 50+35 To Station 51+02 – Construct Chan. Change Rt – Rdwy. Exc. 139 C.Y.

Station 69+54 To Station 70+93 – Construct Chan. Change Rt – Rdwy. Exc. 1237 C.Y.

Remove Concrete Pavement

Station	to Station	Cu. Yds.
72+00	73+00	~~190~~

Station 63+40 to Station 146+80 Place ~~6830~~ Lin. Ft. 10" Water Line. ~~130~~

Station ~~63+40~~ 62+00 Install Embankment Protector Rt – 8" C.M.P. ~~48~~ L.F. – 1 Spillway Assembly – 1 Slip Joint – 2 Anchors.

Constr. Property Fence

Sta	to Sta	Lt.	Rt.
70+86	71+51		~~196~~
90+00	76+00	~~1184~~	1960
76+70	136+276	Cahill Lane Lt.	

PROFILE GRADE IS INSIDE EDGE OF PAVEMENT GRADE

ROADBED WIDTH VARIABLE

Cut Slopes ¾:1, 1:1, 1½:1

Fill Slopes 1½:1, 4:1

B.M. No. 5A – Cross on E end of Hdwl. 100' Lt of Sta. 50+15 – Elev. 415.52

B.M. No. 6A – R.R. Spike in Tel. Pole 83' Lt. of Sta. 80+00 – Elev. 430.60

B.M. No. 7 – Spike in 30" Cypress 70' Rt of Sta. ~~68~~+50 – Elev. 421.23

AS BUILT PLANS
Contract No. 5VC14-F
Date Completed
Document No. 50000531

EQUATION 53+05.41 BACK = 52+88.99 AHEAD

+0.1696 %

+6.20 %

+4.11 %

+2.22 %

700' V.C.

300' V.C.

"Grade for 10" water line"

739,890 S.Y. O.H.

Chan. Ch. Grade "D" LINE

"N" LINE

Contr. 5VC14-F

F-99(1C)
4
V SLO 2 D 6 22
April 28, 1947
T. 30 S., R. 13 E., M.D.B.&M.
SEC. 19
Lt. R=1700 Δ=53°00' T=847.59 L=1572.54
Rt. R=1738 Δ=53°00' T=866.53 L=1607.69
R=1550' Δ=53°00' L=1433.73'
Install Timber Guide Posts Rt.
Station to Station Each Spacing
90+50 - 94+50 5 100'
98+00 - 99+50 2 100'
Station 87+75 To Station 89+75 - Construct Channel Change Rt. - Rdwy. Exc. 1470 C.Y. Place Sack Concrete Riprap - E.&B. 207 C.Y. - Conc. 144.44 C.Y.
Construct Road Approaches
Station Exc. C.Y. Emb. C.Y. Imp. Bor. Tons Width Min. Aggr. Tons
92+35 94+10 Rt. 400 95 20'-20' R.R. 50
Sta. 63+40 to Sta. 146+80 Place 10" Water Line (See Sheet 5)
S. Jackson Lowe et ux
Constr. New Property Fence
Sta. to Sta. Lin. Ft. Lt. Rt.
71+51 90+00 See Prev. Sh.
82+65 132+40 130+30 503 484
10" Water Line
Existing 20' P.C.C. Pavement
Exist. S.H. R/W
Water Tank & Tower
Conn. to Exist. Pipe
Corral
Barn
Access Opening 98+37.74 (30')
6'x8' R.C. Cattle Pass
San Luis Obispo Creek
Lemon Orchard
Chan. Change Area
N 00°02' W 1257.99'
N 00°02' W 972.68'
N 15°36'15" E 296.60'
N 89°58' E 25.00
100+72.69 B.C. Rt.
Install Mct. Plate Guard Rail Rt.
Station to Station Lin. Ft.
84+50 - 90+50 600
84+55 - 90+48 593.8
S. Jackson Lowe et ux
Remove Concrete Pavement
Station to Station Cu. Yds.
85+00 88+00 150
Station 94+10 - Construct Parting Strip Cross-over - Exc. 30 C.Y. - Imp. Bor. 40 T. Min. Aggr. 17 Tons. - C.R.B. 40 T.
Install Embankment Protectors
Station E.&B. C.Y. 8" C.M.P. L.F. Spillways Anchors Slip Joints
88+90 Rt. 56 1 2 1
93+55 Rt. 90+50 Rt. 14 35 1
96+00 Rt. 10 15 1
98+50 Rt. 10 15 1
B.M. No. 8A Spike in 18" Euc. 53' Lt. of Sta. 75+62 Elev. 452.07
B.M. No. 9 Spike in 24" Sycamore 40' Rt. of Sta. 84+80 Elev. 458.52
PROFILE GRADE IS INSIDE EDGES OF PAVEMENT GRADE
ROADBED WIDTH VARIABLE
Cut Slopes ¾:1, 1:1, 1½:1
Fill Slopes 1½:1, 4:1
B.M. No. 10B Spike in Crotch of 5' Sycamore 60' Rt. of Sta. 96+30 Elev. 476.06
AS BUILT PLANS
Contract No. 5VC14-F
Date Completed
Document No. 50000531
+4.11%
400' V.C.
+0.98%
200' V.C.
+1.78%
+1.80%
+1.62% Grade for 10" Water line
4.5% ± Grade for 10" Water line
447.00 ± Conn. to exist. pipe
461.07
471.25
479.58
482.34
473.83
490.97
Vary to fit
Chan. Change Grade
6.0%
In Place 18"x74' C.M.P. - Extend 44' Rt. - E.&B. 29 C.Y.
D.I. in Dix Strip
Place 15"x110' C.M.P. Conduit for 10" Water line
Place 16"x100' Water line
FREEHAUL
"N" LINE
34,420 S.Y. O.H.
500
490
480
470
460
450
440
75 6 7 8 9 80 1 2 3 4 5 6 7 8 9 90 1 2 3 4 5 6 7 8 9 100

F-9410)

47 7 22

T. 30 S., R. 13 E., M.D.B.&M.

V SLO 2 D 7 22

Latkin

April 28, 1947

Approved

SEC. 19

SEC. 18

S. Jackson Lowe et ux

Install Met. Plate Guard Rail
Station To Station — Lin. Ft. Rt.
101+00 - 108+80 — ~~780~~ 773.8

Install Timber Guide Posts Rt.
Station To Station — Each — Spacing
115+50 - 119+50 — ~~5~~ — 50'
123+50 - 125+50 — 3 — 100'

Construct Rd. Appr. Sta. 105+30 Lt.

Approx. Section Line

R = 4038
Δ = 7° 11' 30"
T = 253.75
L = 506.84

120+96.29 E.C. Rt.

Access Opening 115+96.04 (20')

Access Opening 121+96.29 (20') 120+00.00

Existing S.H. R/W

Existing P.C.C. Pavement

Slope Paving

6' Slope Paving

Chan. Change Area

10" Water Line

2" Water Line

6" Gasoline Line (Santa Maria Gas Co.)

6" Gas Line (Santa Maria Gas Co.)

8" Oil Lines (Union Oil Co.)

18"x66' C.M.P.

5'x6' R.C. Box

Signs

Sign

N 14° 03' 30" E — 1073.41'

N 14° 03' 30" E — 548.41'

N 6° 52' E — 610.80'

N 6° 52' E — 679.09'

N 0° 02' W 1255.16'

N 0° 02' W 1257.39'

N 00° 02' W 972.68'

N 85° 56' E 25.00'

N 7° 30' 07" E 206.51'

N 14° 03' 30" E 552.55'

N 25° 22' 04" E 50.99'

N 14° 03' 30" E 334.11'

N. 14° 03' 30" E.

S 75° 56' 30" E 25.00

N. 06° 52' E

739.30'

R = 1762
Δ = 14° 05' 30"
T = 217.78
L = 433.36

R = 168'
Δ = 14° 05' 30"
L = 414.91'

R = 3950
Δ = 7° 11' 30"
L = 495.80'

R = 4088'
Δ = 7° 11' 30"
L = 513.12'

100+72.69 B.C. Rt.

105+06.64 E.C. Rt.

115+79.49 B.C.

120+96.29 E.C. Rt.

Station 100+89 To Station 108+31 – Construct Channel Change Rt. – Rdwy. Exc. ~~16,852~~ C.Y. – Place Sack Concrete Riprap – E. & B. ~~660~~ C.Y. – Conc. ~~497.49~~ C.Y.

~~Station 112+98 Construct Road Approach Rt. Emb. 40 C.Y. – Imp. Bor. = 40 T. Width 20' C.R.B.~~

Station 113+00 – Construct Parting Strip Cross-over – Exc. 30 C.Y. – I.B. = 40 T. – Min. Aggr. 11 Tons. – C.R.B. = 40 T.

Sta. 63+40 to Sta. 146+80 Place 10" Water Line (See sheet 5)

Constr. New Property Fence

Sta.	to Sta.	Lt. Lin. Ft.	Rt.
82+65	132+40		(See Prec. Sheet)

Install Embankment Protectors

Station	8" C.M.P. L.F.	Spillways	Anchors	Slip Joints
103+90 Rt.	~~36~~ 30	/	/	/
107+90 Rt.	~~32~~ 26	/	/	/
124+40 Rt.	~~12~~ 12	/		

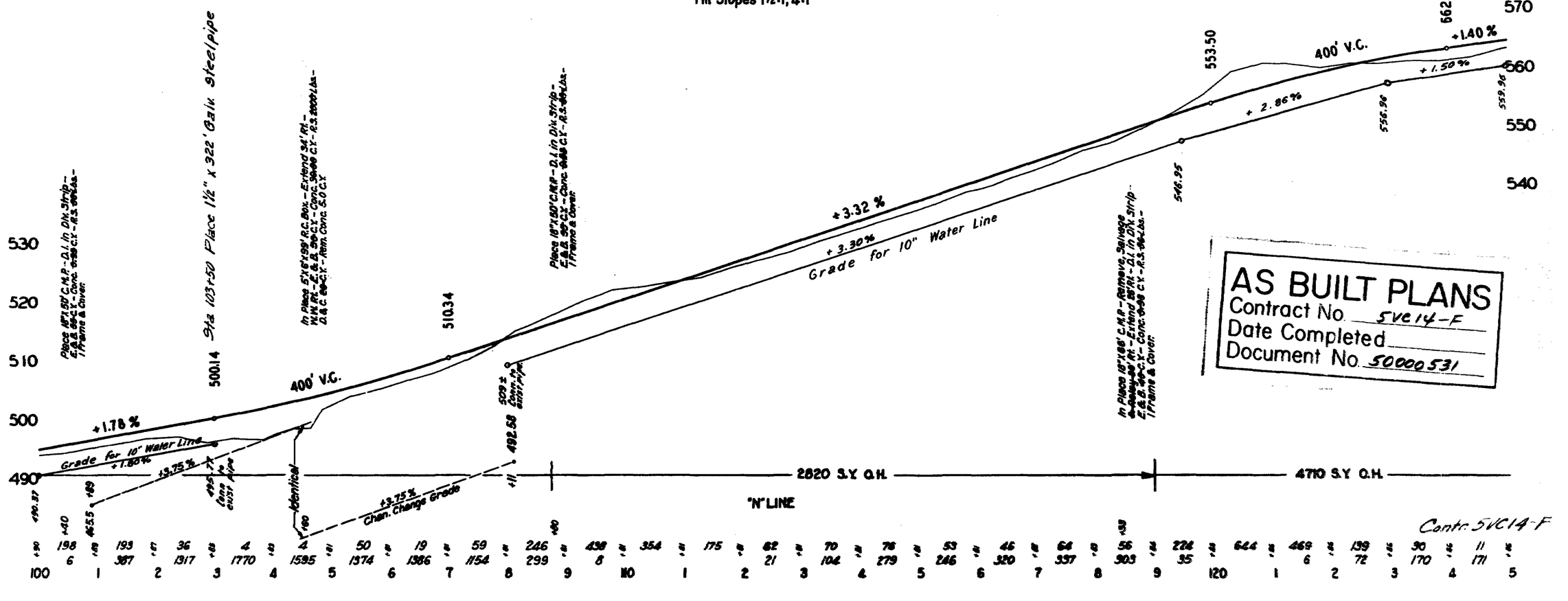
12.0+00
Sta. 121+96 Constr. Rd. Approaches
Rt. Emb. = 100 C.Y. – Imp. Bor. = 55 Tons

B.M. No. 11
Spike in 36" Sycamore
66' Rt. of Sta. 106+60
Elev. 504.79

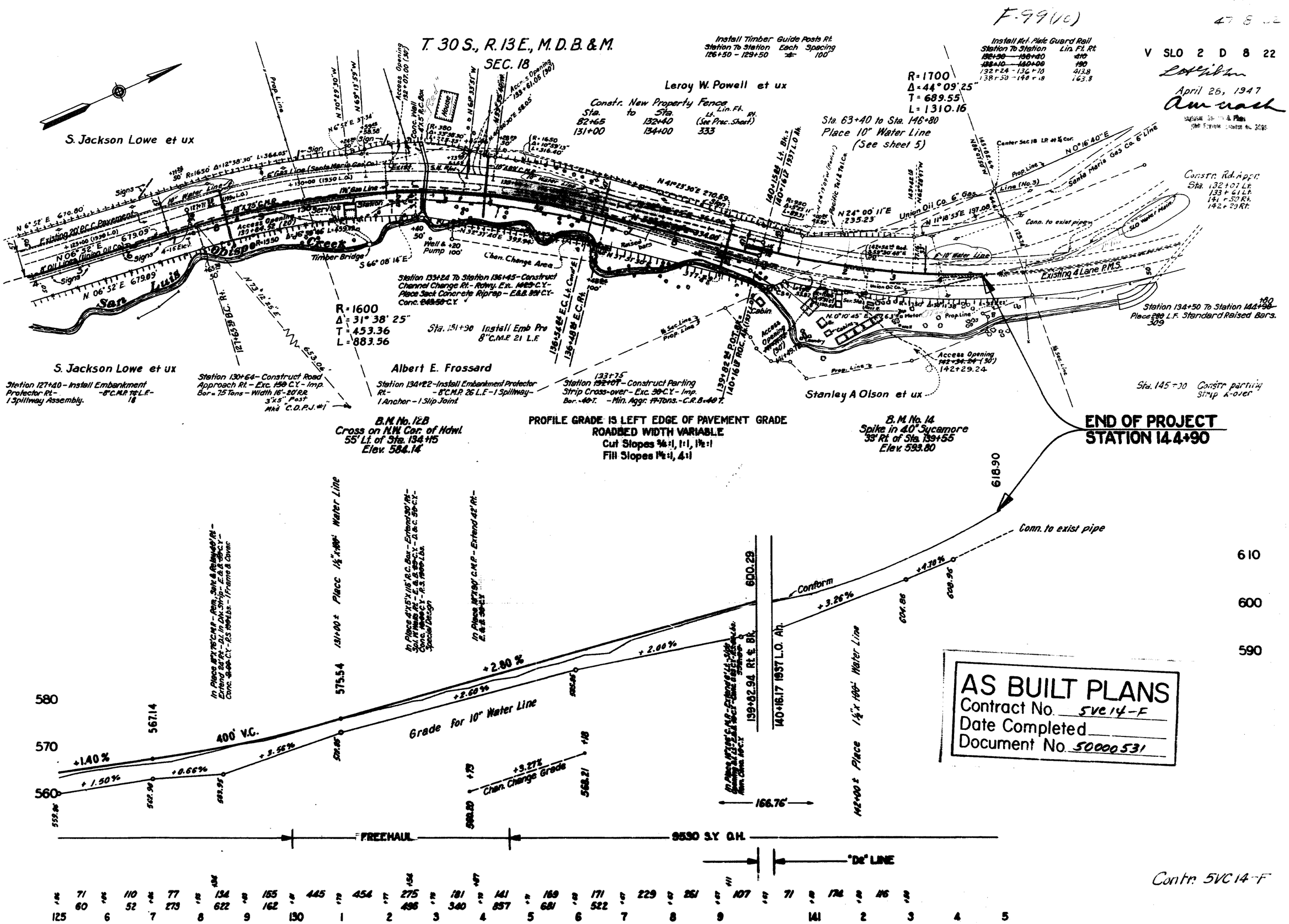
B.M. No. 11B
Spike in Crotch of 30" Sycamore
30' Rt. of Station 108+70
Elev. 516.35

PROFILE GRADE IS LEFT EDGE OF PAVEMENT GRADE
ROADBED WIDTH 36 FT. (New)
Cut Slopes ¾:1, 1:1, 1½:1
Fill Slopes 1½:1, 4:1

San Luis Obispo Creek



AS BUILT PLANS
Contract No. 5VC14-F
Date Completed
Document No. 50000531



F-99(10)
V SLO 2 D 8 22
April 26, 1947
T. 30 S., R. 13 E., M.D.B. & M.
SEC. 18
S. Jackson Lowe et ux
Leroy W. Powell et ux
Constr. New Property Fence
Sta. to Sta. Lin. Ft. Lt. Rt.
82+65 132+40 (See Proc. Sheet)
131+00 134+00 333
Install Timber Guide Posts Rt.
Station To Station Each Spacing
126+50 - 129+50 100
Install Met. Plate Guard Rail
Station To Station Lin. Ft. Rt.
132+24 - 136+70 413.8
138+50 - 140+18 163.8
R = 1700
Δ = 44° 09' 25"
T = 689.55
L = 1310.16
Sta. 63+40 to Sta. 146+80
Place 10" Water Line
(See sheet 5)
Constr. Rd. Appr.
Sta. 132+07 Lt.
133+61 Lt.
141+50 Rt.
142+29 Rt.
Existing 4 Lane P.M.S.
Station 134+50 To Station 144+90
Place 200 L.F. Standard Raised Bars.
Sta. 145+30 Constr. parting Strip X-over
Station 133+24 To Station 136+45 - Construct Channel Change Rt. - Rdwy. Ex. 1425 C.Y. - Place Sack Concrete Riprap - E&B. 351 C.Y. - Conc. 243.50 C.Y.
R = 1600
Δ = 31° 38' 25"
T = 453.36
L = 883.56
Sta. 131+90 Install Emb Pro 8" C.M.P. 21 L.F.
Albert E. Frossard
Station 134+22 - Install Embankment Protector Rt. - 8" C.M.P. 26 L.F. - 1 Spillway - 1 Anchor - 1 Slip Joint
Station 127+40 - Install Embankment Protector Rt. - 8" C.M.P. 14 L.F. - 1 Spillway Assembly.
Station 130+64 - Construct Road Approach Rt. - Exc. 150 C.Y. - Imp. Bor. = 75 Tons - Width 16'-20' R.R.
Station 132+07 - Construct Parting Strip Cross-over - Exc. 30 C.Y. - Imp. Bor. 40 T. - Min. Aggr. 17 Tons. - C.R.B. 40 T.
Stanley A Olson et ux
Access Opening 142+34.24 (30')
142+29.24
B.M. No. 12B
Cross on N.W. Cor. of Hdwl.
55' Lt. of Sta. 134+15
Elev. 584.14
PROFILE GRADE IS LEFT EDGE OF PAVEMENT GRADE
ROADBED WIDTH VARIABLE
Cut Slopes 3/4:1, 1:1, 1 1/2:1
Fill Slopes 1 1/2:1, 4:1
B.M. No. 14
Spike in 40" Sycamore
33' Rt. of Sta. 139+55
Elev. 593.80
END OF PROJECT
STATION 144+90
Conn. to exist pipe
Conform
Grade for 10" Water Line
Chan. Change Grade
400' V.C.
+1.40 %
+1.50 %
+0.66 %
+3.56 %
+2.80 %
+2.60 %
+2.00 %
+3.27 %
+3.26 %
+4.70 %
567.14
575.54
600.29
139+82.94 Rt. ℄ Br.
140+16.17 1937 L.O. Ah.
166.76'
142+00 ± Place 1 1/2" x 100' Water Line
131+00 ± Place 1 1/2" x 100' Water Line
FREEHAUL
9530 S.Y. O.H.
"De" LINE
AS BUILT PLANS
Contract No. 5VC14-F
Date Completed
Document No. 50000531
Contr. 5VC14-F

New 05-SLO-101-A

ROUTE	COUNTY	POST ROUTE	SECTION NO	PHASE NO	TOTAL SHEETS
V	SLO	2	D	1	26

INDEX OF SHEETS

Sheet No. 1 Title Sheet
" " 2 Typical Cross-sections and Details of Pavement
" " 3-12 Plan and Profile
13-15 Standard Details
16-20 Cribbing Details
21 Special Details
22 Traffic Control
23-26 Culvert Details
1-10 } Cross-sections
1-200 }

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

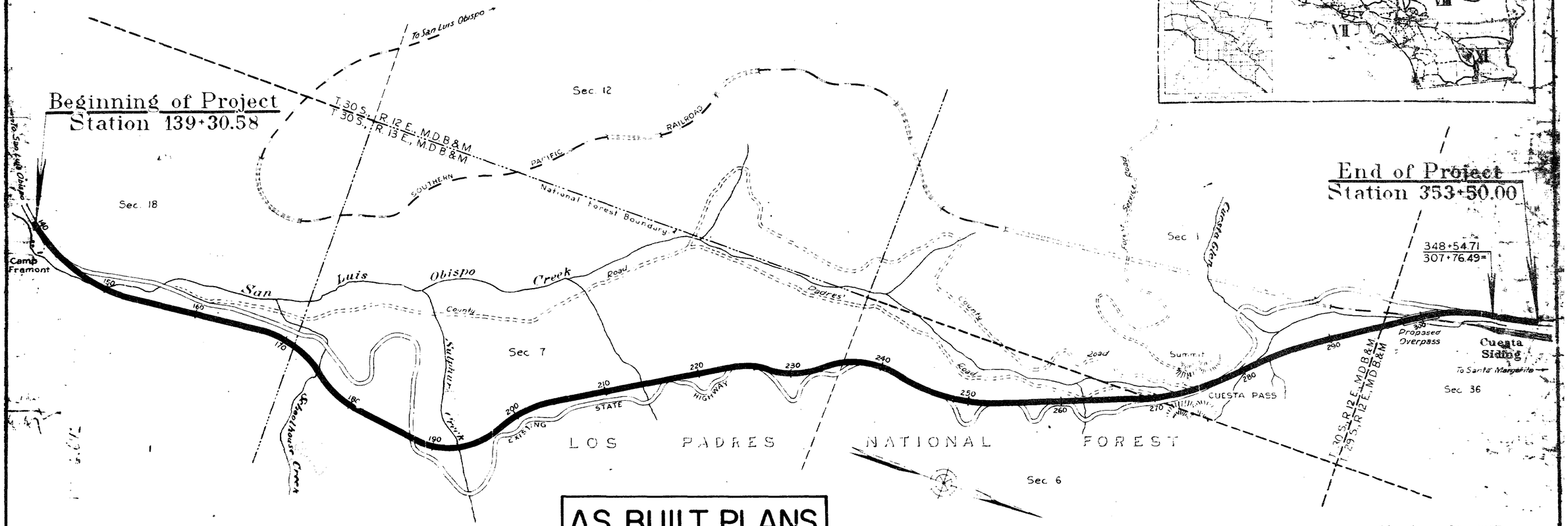
PLAN AND PROFILE OF

STATE HIGHWAY

In San Luis Obispo County, between San Luis Obispo Creek and Cuesta Siding

Scales { Plan: 1 In. = 100 Ft.
Profile: Hor. 1 In. = 100 Ft. Vert. 1 In. = 20 Ft.

being the detail plans of a portion of the route for the State highway adopted by the California Highway Commission August 26, 1914)



CONVENTIONAL SIGNS

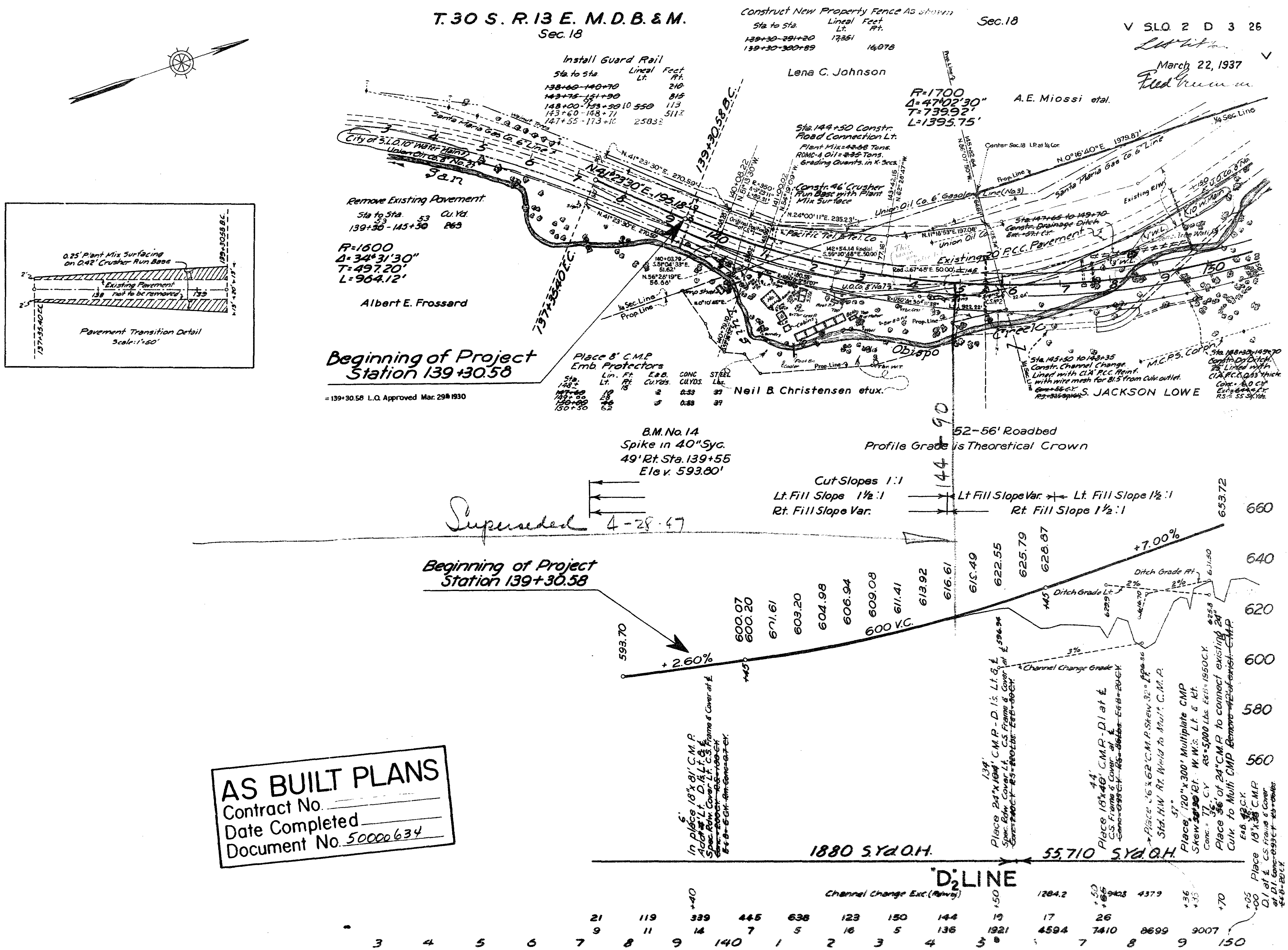
County Line		Rock or Retaining Wall	
City or Town Limits		Levee	
Township Line		Culverts	
Section Line		Drop Inlet	
Grant Line		Trolley Pole	
Fence		Power Pole	
Guard Rail		Power Tower	
Untenced Property		Telegraph or Telephone Pole	
Right of Way Line			
Base or Survey Line			
Traveled Way			
Railway Tracks		Marsh	

AS BUILT PLANS
Contract No. _____
Date Completed _____
Document No. 50000634

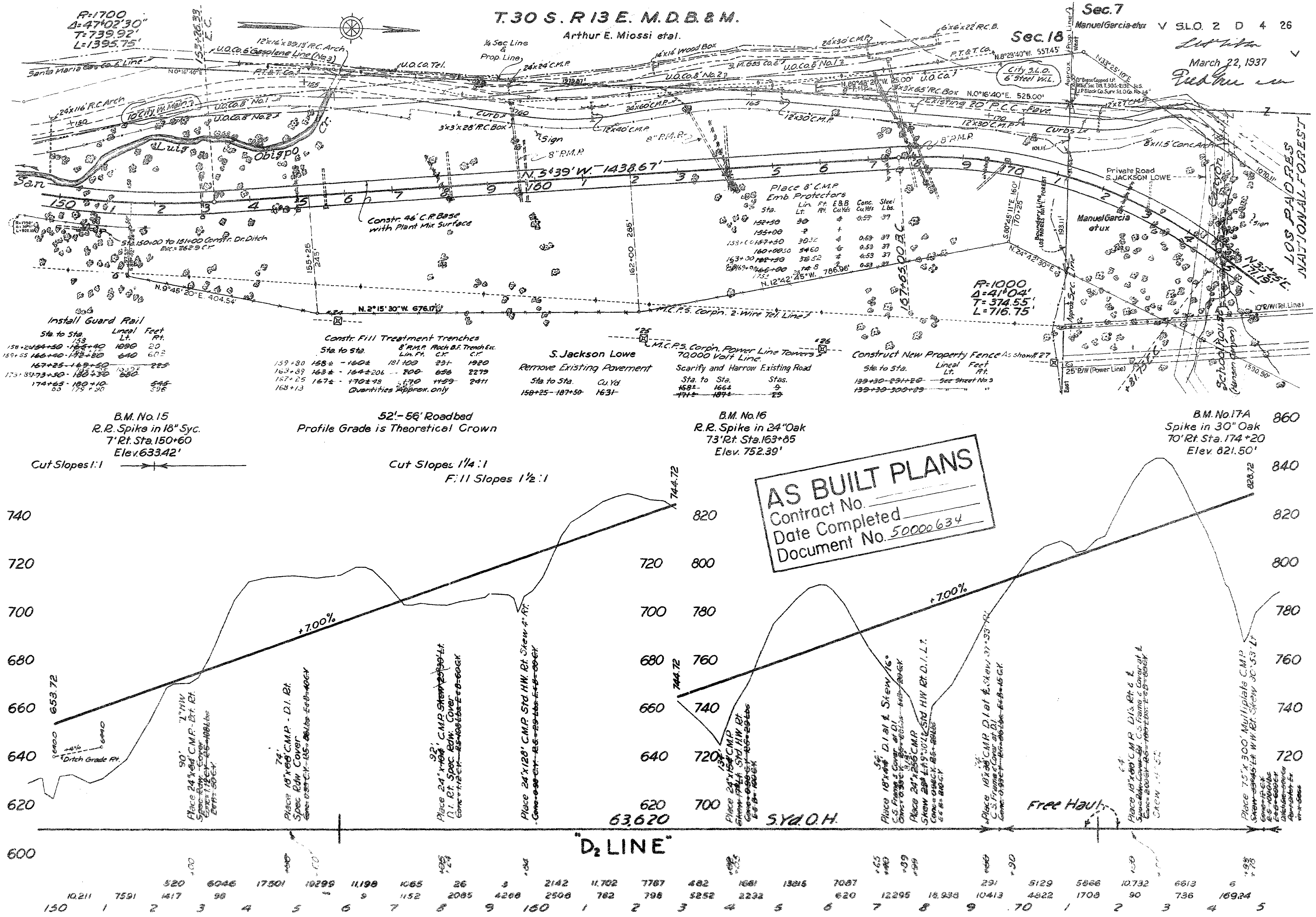
Scale in Feet
0 600 1200 1800

Length of project = 17,334.93 feet = 3.28 miles

March 20, 1937
District Engineer
Approved March 22, 1937
C. H. Purcell
State Highway Engineer
by G. T. McCoy
Asst State Highway Engineer
Director of Public Works


V S.L.O. 2 D 3 26
March 22, 1937
T. 30 S. R. 13 E. M.D.B. & M.
Sec. 18
Sec. 18
Construct New Property Fence As shown
Sta. to Sta. Lineal Feet Lt. Rt.
139+30-291+20 17,351
139+30-300+89 16,078
Install Guard Rail
Sta. to Sta. Lineal Feet Lt. Rt.
138+60-140+70 210
143+75-151+90 815
148+00-153+50 10 550 113
143+60-148+71 511
147+55-173+10 2583
Lena C. Johnson
A.E. Miossi etal.
R=1700
Δ=47°02'30"
T=739.92'
L=1395.75'
Sta. 144+50 Constr. Road Connection Lt.
Plant Mix=42.68 Tons.
RDMC-4 Oil=2.35 Tons.
Grading Quants. in K-Secs.
Constr. 46' Crusher Run Base with Plant Mix Surface
Remove Existing Pavement
Sta to Sta. Cu. Yd.
139+30 - 145+50 263
R=1600
Δ=34°31'30"
T=497.20'
L=964.12'
Albert E. Frossard
0.25' Plant Mix Surfacing on 0.42' Crusher Run Base
Existing Pavement not to be removed
Pavement Transition Detail
Scale: 1"=50'
137+35.40 E.C.
139+30.58 B.C.
City of S.L.O. 10" Water Main
Union Oil Co. 8" No. 21
Santa Maria Gas Co. 6" Line
Walnut Trees
San Luis Obispo Creek
N.41°23'30"E. 195.18'
N.41°23'30"E. 270.59'
Pacific Tel. & Tel. Co.
Union Oil Co. 6" Gasoline Line (No. 3)
Existing 20' P.C.C. Pavement
N.0°16'40"E. 1979.87'
Center Sec. 18 I.P. at ¼ Cor.
¼ Sec. Line
Prop. Line
Existing R/W
Sta. 147+65 to 149+70 Constr. Drainage Ditch Exc. = 57.1 C.Y.
Sta. 145+50 to 148+35 Constr. Channel Change. Lined with Cl.'A' P.C.C. Reinf. with wire mesh for 81.5' from Culv. outlet.
Sta. 148+30-149+70 Constr. Dr. Ditch. Lined with Cl.A P.C.C. 0.33' thick
M.C.P.S. Corp.
S. JACKSON LOWE
Neil B. Christensen etux.
Beginning of Project Station 139+30.58
= 139+30.58 L.O. Approved Mar. 29th 1930
Place 8' C.M.P. Emb. Protectors
Sta. | Lin. Ft. Lt. Rt. | E&B. Cu. Yds. | CONC. CU. YDS. | STEEL Lbs.
147+60 10 2 0.53 37
149+00 28
150+00 46 3 0.53 37
150+50 62
B.M. No. 14
Spike in 40" Syc.
49' Rt. Sta. 139+55
Elev. 593.80'
52-56' Roadbed
Profile Grade is Theoretical Crown
Cut Slopes 1:1
Lt. Fill Slope 1½:1
Rt. Fill Slope Var.
Lt Fill Slope Var.
Lt. Fill Slope 1½:1
Rt. Fill Slope 1½:1
144+90
Superseded 4-28-47
Beginning of Project Station 139+30.58
+2.60%
600 V.C.
+7.00%
593.70 600.07 600.20 601.61 603.20 604.98 606.94 609.08 611.41 613.92 616.61 619.49 622.55 625.79 628.87 653.72
Ditch Grade Rt.
Ditch Grade Lt.
Channel Change Grade
660 640 620 600 580 560
In place 18"x81' C.M.P. Add'l Lt. D.I.s Lt. & ℄ Spec. Rdw. Cover Lt. C.S. Frame & Cover at ℄
Place 24"x134' C.M.P. - D.I.s Lt. & ℄ Spec. Rdw. Cover Lt. C.S. Frame & Cover at ℄
Place 18"x44' C.M.P. - D.I at ℄ C.S. Frame & Cover at ℄
Place 36"x62' C.M.P. Skew 32° Lt. Std. H.W. Rt. Weld to Multi C.M.P.
Place 120"x300' Multiplate CMP Skew 37° Rt. W.W.s Lt. & Rt. Conc. = 77 C.Y. RS=5,000 Lbs. E&B=1950 C.Y.
Place 36' of 24" C.M.P. to connect existing 24" Culv. to Multi CMP
Place 18"x36' C.M.P. D.I. at ℄ C.S. Frame & Cover at D.I.
1880 S.Yd. O.H.
55,710 S.Yd. O.H.
"D2" LINE
Channel Change Exc. (Rdwy.)
AS BUILT PLANS
Contract No.
Date Completed
Document No. 50000634

99-A 3 22
99-C 4 10



T. 30 S. R. 13 E. M.D.B. & M.

Sec. 7

V S.L.O. 2 D 5 26

March 22, 1937

Fred Trenn

Manuel Garcia etux.

LOS PADRES NATIONAL FOREST

M.C.P.S. Corp. 2 Wire Tel. Line

10' R/W

25' R/W (Power Co.)

70,000 Volt Line

M.C.P.S. Tower #28

Schoolhouse Canyon (Hansen Canyon)

City S.L.O. 6" Wood Stave Pipe Line (Road Canal)

Cultivated

Edge Hay Field

Water Line

Timber

Sulphur

City S.L.O. 6 Steel W. Line?

Curb

Existing 20' P.C.C.

12"x54" C.M.P.

12"x40" C.M.P.

5'x5'x41.6' R.C. Box.

5'x5'x34' R.C. Box

Sign

Stub

Orchard (Gularte Ch.)

Sta. 175+64 to 176+53 Constr. Dr. Ditch Rt. Exc.=629.6 C.Y.

Sta. 180+30 Constr. Road Approach Rt. Exc. 8332 C.Y. See L.O. No. 11 for Details

Sta. 188+50 Constr. Road Approach Lt. Rdwy. Exc.=350 C.Y. Emb.=370 C.Y. Part of Quants. in X-Secs.

Sta. 190+00 Constr. Road Appr. Rt. Emb.=900 C.Y. Part of Quants. in X-Secs.

Construct New Property Fence As Shown

Sta. to Sta.	Lineal Feet Lt.	Ft.
~~138+80 - 139+20~~	See Sheet No. 3	
~~139+30 - 200+89~~	" "	"

8" Perf. Mets. Underdrain

Sta. 192+60 to 189+00 Rt. & Gutter

" 194+50 " 202+50 " "

Remove Existing Pavement

Sta. to Sta.	Cu. Yd.
~~187+43 - 187+50~~	~~33~~
~~188+25 - 188+50~~	~~88~~
196+50 - 196+76	
198+50 - 200+	

Constr. Fill Treatment Trenches

Sta. to Sta.	8" P.M.P. Lin. Ft.	Rock B.F. C.Y.	Trench Exc. C.Y.
~~182+72 - 184+20~~	~~146~~	~~28~~	~~30~~ Rt. Gutter
~~184+20 - 188+00~~	~~396~~	~~75~~	~~80~~ " "
~~188+ - 195+~~	~~2550~~	~~479~~	~~6240~~

Quantities Approx. Only

Place 8' C.M.P. Emb. Protectors

Sta.	Lin. Ft.	Ft.	E.B.B. Conc. Cu. Yds.	Steel Cu. Yds.	Steel Lbs.
176+50	24	4			
178+00	24	4			
~~181+20~~	~~24~~	~~4~~	~~0.53~~	~~.31~~	~~197~~
~~186+80~~	~~38.4~~	~~4~~			~~63~~
~~187+25~~	~~26~~	~~4~~			
189+55	6				
191+80	58				
195+00	24				

Install Guard Rail

Sta. to Sta.	Lineal Feet Lt.	Ft.
~~189+50 - 193+00~~	~~350~~	
~~193+00 - 194+20~~	~~120~~	
~~194+20 - 194+70~~	~~50~~	~~570~~
190+40 - 194+90		430
197+80 - 199+20	140	172
	36	

4.4% E.

52'-56' Roadbed

Profile Grade is Theoretical Crown

Sta. to Sta.	Lin. Ft.
175+00 - 178+00	1206 (School House Canyon)
192+65 - 198+80	246
	174

B.M. No. 18
Knob on S.W. Cor. H.W.
80' Rt. Sta. 189+20
Elev. 943.22'

B.M. No. 19
"□" on N.E. Cor. Catch Basin
100' Rt. Sta. 199+70
Elev. 1057.03'

Cut Slopes 1¼:1
Fill Slopes 1½:1

R=1000
Δ=27°31'30"
T=244.93'
L=480.40'

R=1000
Δ=27°06'30"
T=241.08'
L=473.13'

R=800
Δ=65°39'
T=516.06'
L=916.85'

N 71°53'30" E. 672.62'

N 57°45'30" W. 1020.34'

N 24°42'30" E. 1590.50'

N 7°53'30" E.

N 22°00' W. 326.76'

N 68°00' E. 220.00'

N 18°27'30" W.

N 62°38'20" W. 941.17'

N 19°51'50" W. 1378.31'

N 71°38'55" W. 391.84'

N 34°38'30" E. 295'

Sta. 187+33.4 E.C.

Sta. 197+22.6 E.C.

Sta. 199+27.95 B.C.

Sta. 188+05.90 B.C.

Sta. 189+05.90 E.C.

Sta. 180+75 Place 18"x36" C.M.P. O.I.s. Rt. & ℄

Grade of Road Approach Lt. Level

Grade of Road Appr. Rt.

+7.00%

+15%

-10%

926.72

820.72

1038.72

AS BUILT PLANS
Contract No.
Date Completed
Document No. 5000634

Sta.	Description	Cu. Yds.	Cum.
175+00	Place 36"x168' C.M.P. Skew 17°05' Lt. (Hill Inspector)		
178+00	Place 18"x78' C.M.P. O.I. at ℄ (Place 24" on Slope) C.S. Frame & Cap at O.I.		
~~181+20~~	~~Place 18"x66' C.M.P. O.I. at ℄ (Place 66" on Slope)~~	~~85~~	~~85~~
~~186+80~~	~~Place 15"x38' C.M.P. O.I. at ℄~~	~~45~~	~~130~~
187+25	Place 105"x25' Multi. C.M.P. Skew 15°W. Cattle Pass M.I.tered Ends	236,970 S.Yd. O.H.	
189+55	Place 18" x 122' C.M.P. Skew 39° Lt.		
191+80	Place 18"x78' C.M.P. O.I. Rt. Spec. Box Cover Skew 20° Lt.		
195+00	Ditch Grade Rt.		
196+50	Place 15"x172' C.M.P. O.I.s. Rt. & ℄ Skew 65° Rt. H.W. Rt.	90	90
198+50	Place 10"x 60' C.M.P. S.C.P. Rt. C.S. Frame & Cover at O.I.	5330 S.Yd. O.H.	
199+70	Place 18"x 30' C.M.P. (Fill Shoe)		
200+	Place 18"x160' C.M.P. (Out Net Fill Treat)		
202+50	Place 60"x 20' C.M.P. (8 gauge) W.W.B.F. Skew 18°15' Lt.	Free Haul	
203+	Place 105"x25' Multi. C.M.P. Cattle Pass Mitered Ends		
205+05	Place 18"x48' C.M.P. O.I. at ℄ C.S. Frame & Cover at O.I.		
138+30	Place 15"x26' C.M.P. O.I.s 48' ℄ & ℄ Special Cover Rt. C.S. Frame & Cover Rt. ℄		
139+30	Conc. 8.0 C.Y. #3 = 180 lbs. Exc. = 56 C.Y. "L" H.W. Rt.		

"D2" LINE

175 6 7 8 9 180 1 2 3 4 5 6 7 8 9 190 1 2 3 4 5 6 7 8 9 200

22.185 18.458 16.307 14.620 9339 1996 700 8569 2524 2800 3066 648 14.271 26.049 38.238 14.457 329 1134 720 2020 5907 11,642 15,581 12,709 453 315? 9176 20,120 14,613 52 2997 2645 7486 58

940 920 900 880 860 840 820 800 780 960 940 900 880 860 840 820 800 1040 1020 1000 980 960 940 920 900

Sec 18

Sec 7

T 30S R 18E

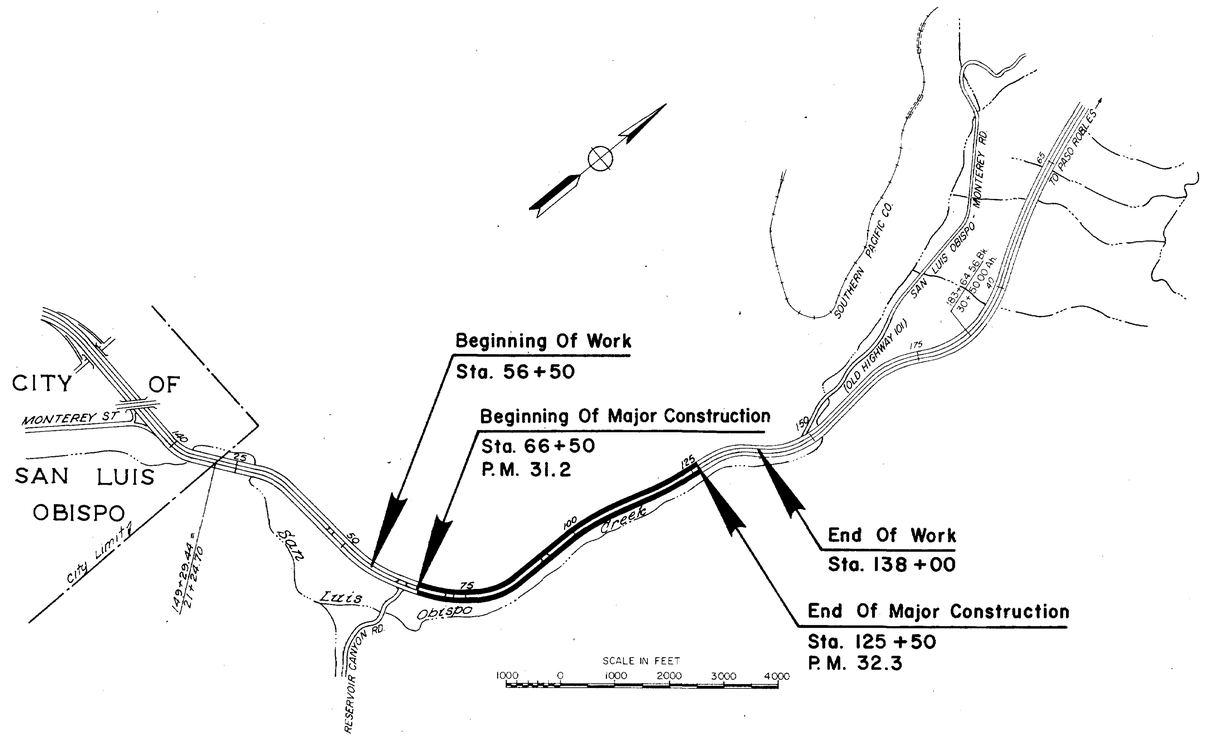
INDEX OF SHEETS

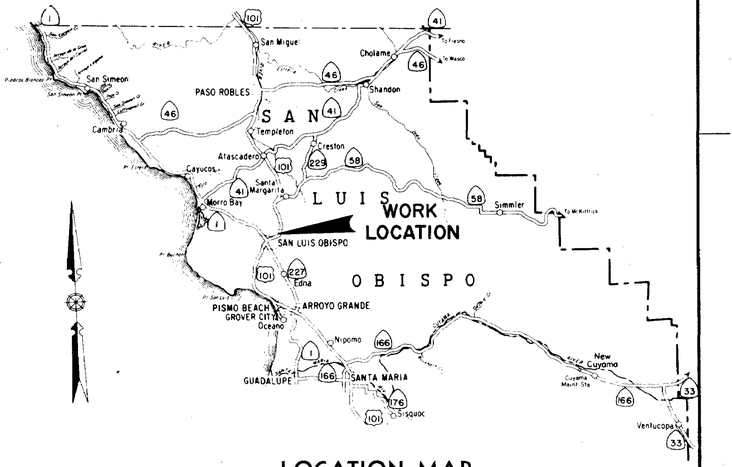
Dist.	County	Route	Post Miles	Sheet No.	Total Sheets
05	SLO	101			

E. F. Gregory
DISTRICT DIRECTOR OF TRANSPORTATION
REGISTERED CIVIL ENGINEER No. 9237

CHIEF, OFFICE OF OFFICE ENGINEER
REGISTERED CIVIL ENGINEER No. _____

DATE APPROVED _____





LOCATION MAP

Project Engineer	Date	Chief, Design Branch	Date	Approval Recommended By	Date
G.L. Simms		J.A. Hanto		M.W. Beckstead	

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN SAN LUIS OBISPO COUNTY FROM RESERVOIR CANYON ROAD TO 0.3 MILE SOUTH OF OLD HIGHWAY 101

to be supplemented by Standard Plans dated March, 1977

Contract No.

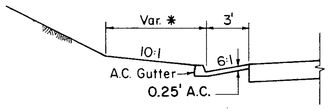
FOR REDUCED PLANS 0 1 2 3
ORIGINAL SCALE IS IN INCHES

05201 218341

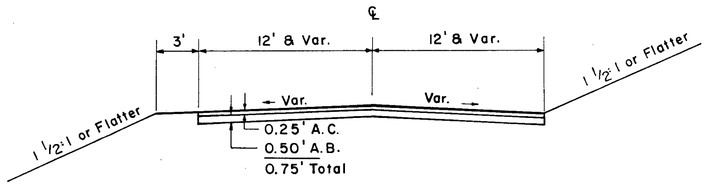
Dist.	County	Route	Post Miles Total Project	Sheet No.	Total Sheets
05	SLO	101			

PROJECT ENGINEER G. L. Simms REGISTERED CIVIL ENGINEER NO. 10701

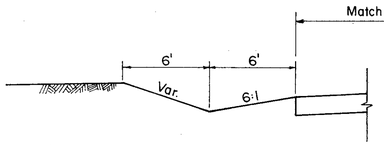
DATE APPROVED



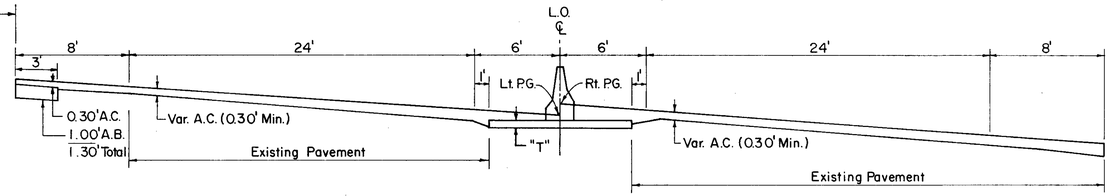
107 + 00 TO 125 + 50



A.C. DRIVEWAYS



98 + 00 TO 104 + 00

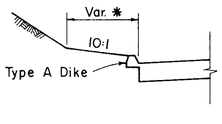


98+00 TO 108+00

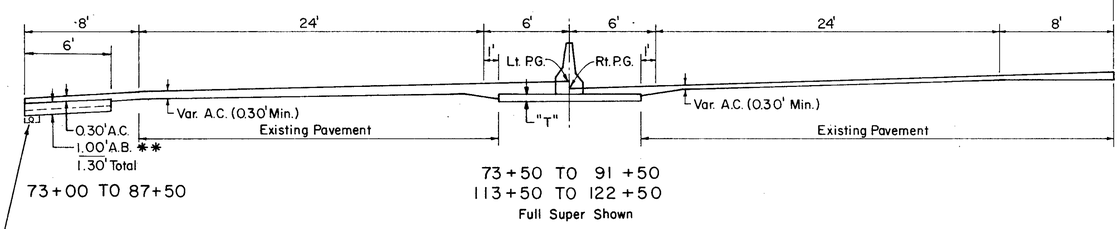
98 + 00 TO 108 + 50
Full Super Shown

Note: Dimensions of the structural section are subject to the tolerances specified in the Standard Specifications.

Note: The final layer of A.C. pavement shall not be placed until just prior to final pavement striping.

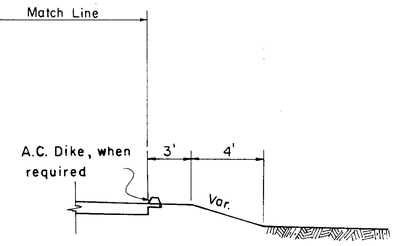


75 + 00 TO 96 + 00

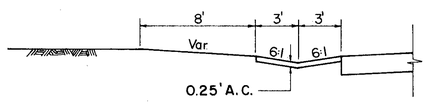


73+00 TO 87+50

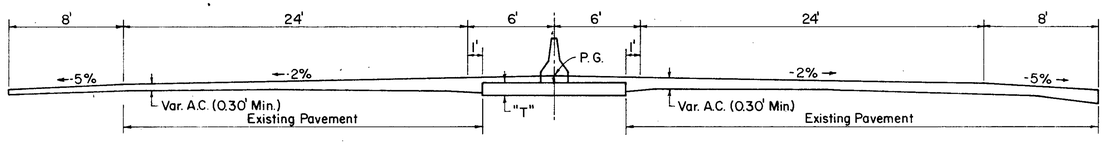
73+50 TO 91 +50
113+50 TO 122 +50
Full Super Shown



84 +50 To 125 + 50

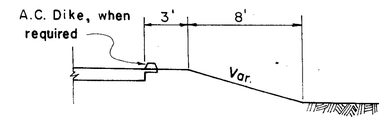


72 + 25 TO 75 + 00



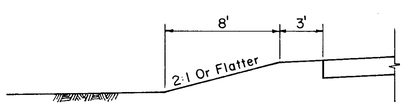
123 + 75 TO 125+50

69 + 50 TO 73 + 50
91 + 50 TO 98 + 00
108 + 50 TO 113 + 50
122 + 50 TO 125 + 50
Tangent Section Shown

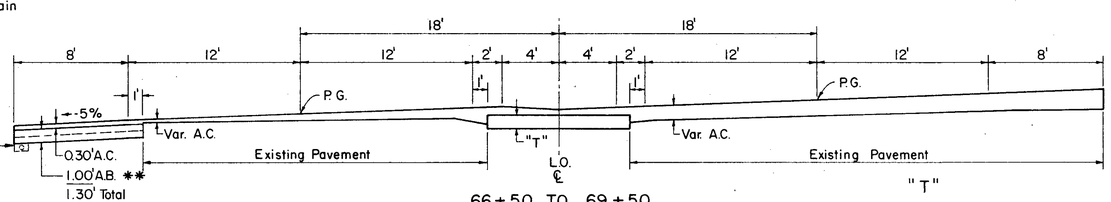


66+50 To 84+50

1 1/2" Slotted Plastic Pipe Underdrain
(See Misc. Details)



66 + 50 TO 72 + 25
96 + 00 TO 98 + 00
104 + 00 TO 107 + 00



66+50 TO 73+00
87+50 TO 98+00
108+00 TO 123+75

66+50 TO 69+50
Conform Section

Note: Minimum 0.30' A.C. Over Median A.B.

"T"

66+50 TO 71+00 = 1.00' A.B.
71+00 TO 92+00 = 0.50' A.B.
92+00 TO 96+00 = 1.00' A.B.
96+00 TO 123+75 = 0.50' A.B.
123+75 TO 125+50 = 0' A.B. (Conc. Barrier To Be Placed On A.C. Paving)

LEGEND

A.C.	Type B Asphalt Concrete
A.B.	Class 2 Aggregate Base
P.G.	Profile Grade
*	See Cross-Sections For Variable Widths
**	Except Where 0.67' A.B. And 0.33' Permeable Material Is Required For 1 1/2" Slotted Drain.

TYPICAL CROSS-SECTIONS

Scale: 1" = 5'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

Project Engineer	Date	Design Engineer	Date	Approved Recommended By	Date
G.L. Simms		J.A. Hanto		M.W. Beckstead	

FORM DH-PD-92-PF

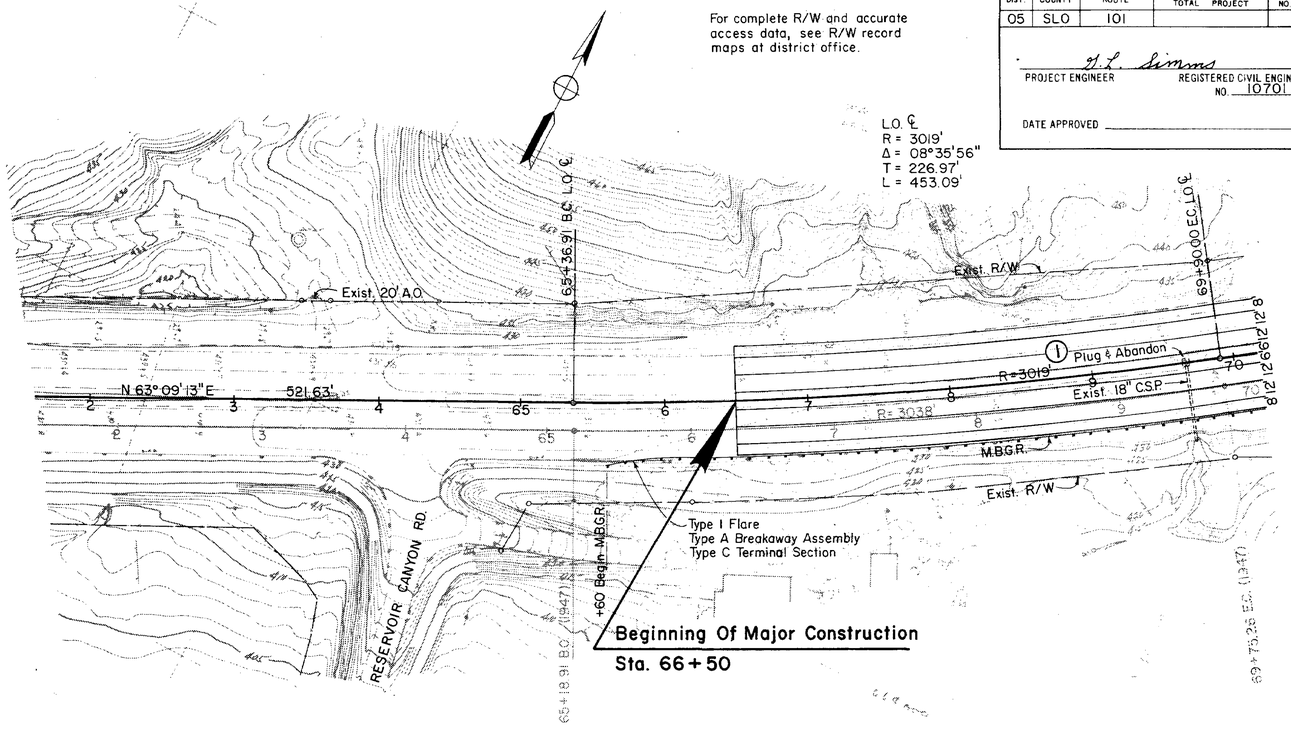
05201 218341

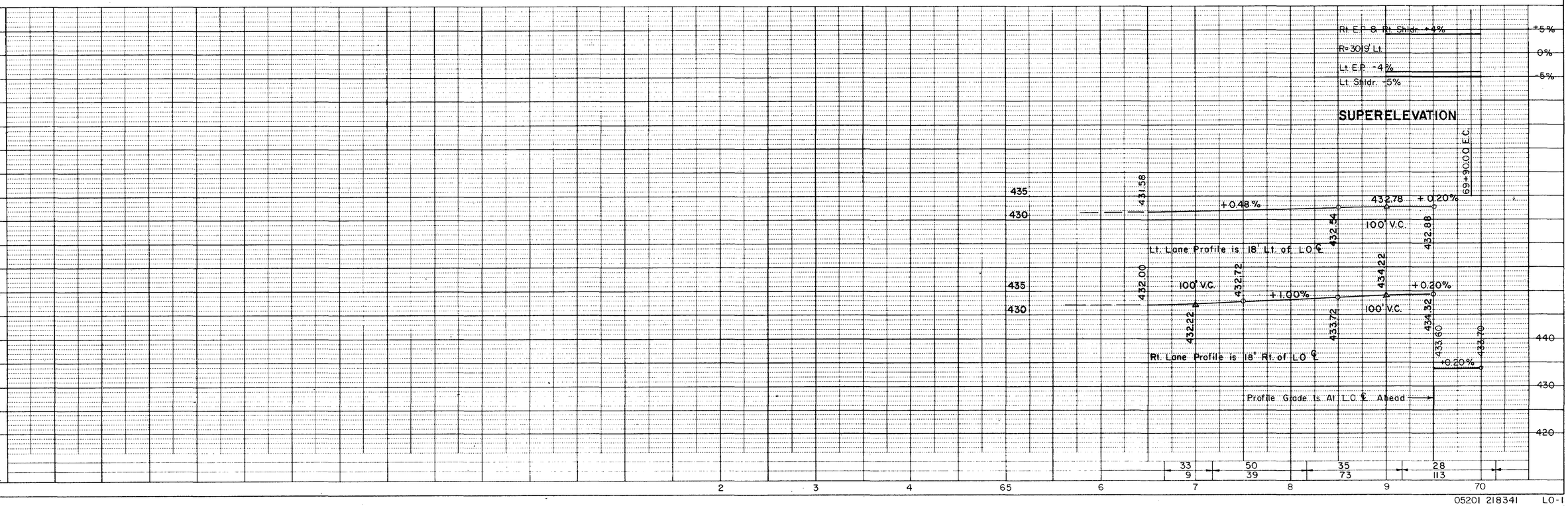
DIST.	COUNTY	ROUTE	POST MILES TOTAL	POST MILES PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101				

G. L. Simms
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO. 10701

DATE APPROVED _____

For complete R/W and accurate access data, see R/W record maps at district office.





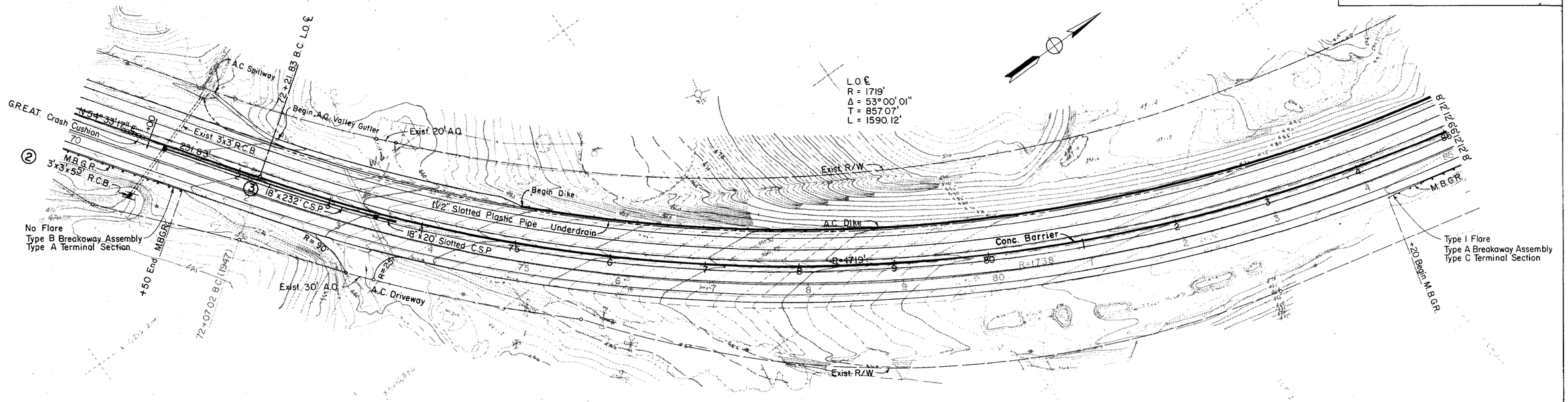
Project Engineer	G.L. Simms	Date	
Design Engineer	J.A. Honto	Date	
Approval Recommended By	M.W. Beckstead	Date	
Cu. Exc.			
Yds. Emb.			
Sta.			

FORM HD 90 PF

DIST.	COUNTY	ROUTE	POST MILES TOTAL	POST MILES PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101				

G.L. Simms
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO. 10701

DATE APPROVED



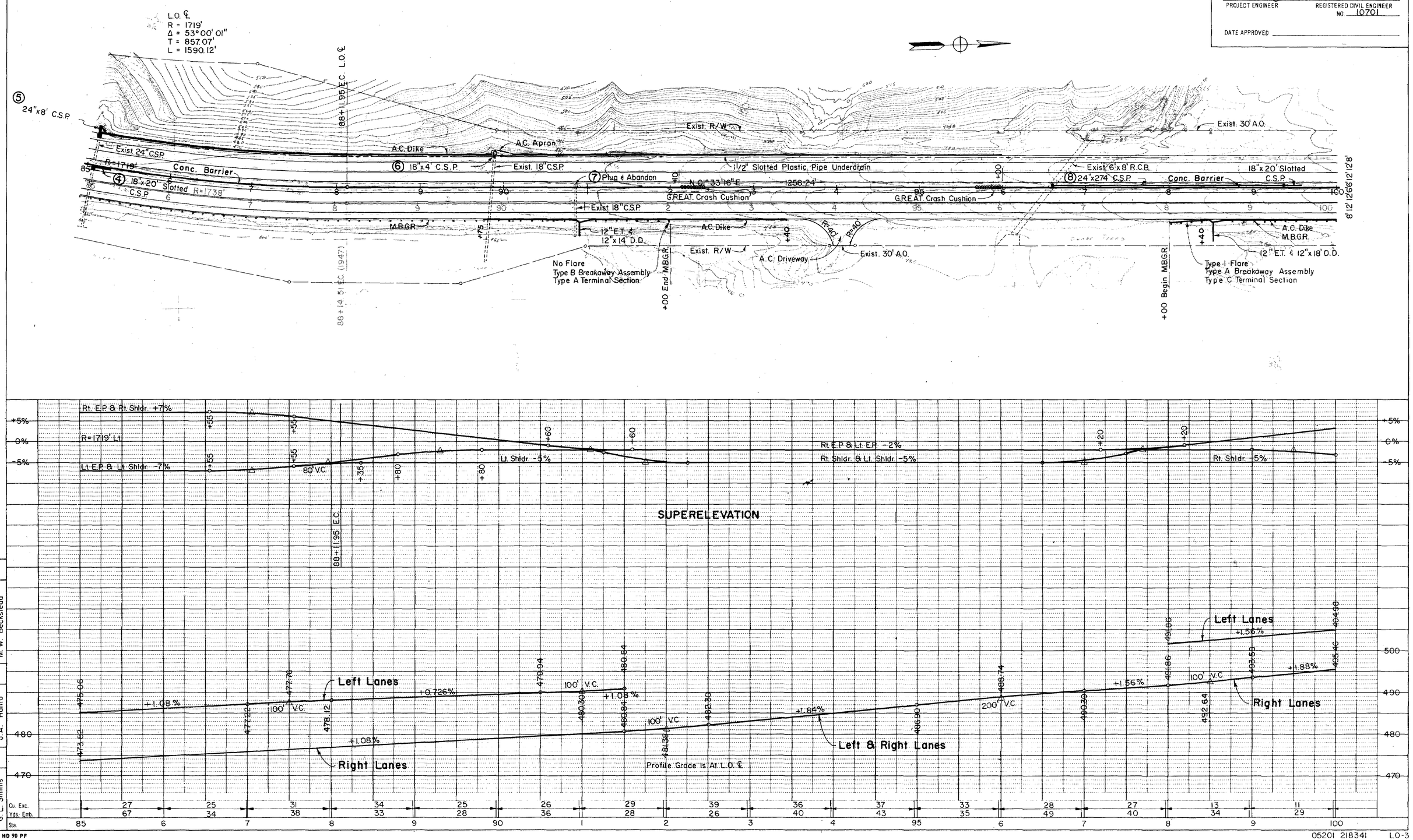
FORM HD 90 PF

05201 218341 LO-2

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101			

G. L. Simms
PROJECT ENGINEER REGISTERED CIVIL ENGINEER
NO 10701

DATE APPROVED



Project Engineer	Date	Design Engineer	Date	Approval Recommended By	Date
G. L. Simms		J. A. Hanto		M. W. Beckstead	

FORM HD 90 PF

05201 218341 LO-3

DIST.	COUNTY	ROUTE	POST MILES TOTAL	POST MILES PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101				

T. L. Simms
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO. 10701

DATE APPROVED

L.O. ℄
R = 1781'
Δ = 14°05' 33"
T = 220.14'
L = 438.06'

100+70.19 B.C. L.O. ℄

105+08.25 E.C. L.O. ℄

Exist. 20' A.C.

Exist. R/W

A.C. Spillway

Begin A.C. Gutter

A.C. Gutter

Exist. 5'x6' R.C.B.

⑨ 18"x20' Slotted C.S.P.

Conc. Barrier

R=1781'

R=1762'

Exist. 18" C.S.P.

12" E.T. & 12"x10' D.D.

⑩ 18"x20' Slotted C.S.P.

12" E.T. & 12"x22' D.D.

A.C. Dike M.B.G.R.

No Flare
Type B Breakaway Assembly
Type A Terminal Section

Exist. R/W

105+08.25 E.C. (19.47)

+30 End M.B.G.R.

⑪ Plug & Abandon

N 15° 38' 49" E

1074.63'

Exist. 18" C.S.P.

12" E.T. & 12"x4' D.D.

Conc. Barrier

A.C. Dike

1½" Slotted Plastic Pipe Underdrain

8' 12' 26' 12' 28'

+75

100+27.82 C.I.P.

SUPERELEVATION

Lt. E.P. & Lt. Shldr. +7%

R=1781' Rt.

Rt. E.P. & Rt. Shldr. -7%

+45 80' V.C. +55 +55 +55 80' V.C. +35 +80 +80 +80 +60 +60

Rt. E.P.

Rt. Shldr. -5%

Rt. E.P. & Lt. E.P. -2%

Rt. Shldr. & Lt. Shldr. -5%

+30 +30 +30 +80

Lt. Shldr. -5%

+5%
0%
-5%

100+70.19 B.C.

105+08.25 E.C.

494.98 495.76 +1.56% 100' V.C. 497.48 +1.88% 500.30

495.46 496.54 +1.88% 200' V.C. 502.88 502.88 +2.59% 504.77

Left Lanes

502.96 505.41 +2.43% 507.36

200' V.C. +3.60% 509.96

Right Lanes

507.84 511.20 512.76 514.56 +3.36% 516.24

Profile Grade is At L.O. ℄

521.28 522.96 100' V.C. 524.60 +3.28%

Left & Right Lanes

Left Lanes

532.80 534.48 +3.48% 536.48 537.92

100' V.C. +3.28%

534.44 537.72

Right Lanes

+5%
0%
-5%
500
510
520
530
540

Cu. Exc.		25		41		33		23		7		9		9		16		38		45		30		32		31		33		33	
Yds. Emb.		34		23		32		40		61		72		70		41		35		39		27		27		40		63		44	
Sta.	100		1		2		3		4		105		6		7		8		9		110		1		2		3		4		115

Project Engineer: G.L. Simms — Date — Design Engineer: J.A. Hanlo — Date — Approval Recommended By: M.W. Beckstead — Date

FORM HD 90 PF

05201 218341 LO-4

DIST.	COUNTY	ROUTE	POST MILES TOTAL	POST MILES PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101				

G. L. Simms
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO. 10701

DATE APPROVED

L.O. ℄
R = 4019'
Δ = 07°15' 11"
T = 254.72'
L = 508.76'

115+82.88 B.C. L.O.℄

120+91.64 E.C. L.O.℄

127+62.96 B.C. L.O.℄

+30 Remove Exist. Crash Cushion
Join Concrete Barrier To Exist. Barrier

Exist. R/W

A.C. Apron

A.C. Gutter

18"x4' C.S.P.

Exist. 18" C.S.P.

11/2" Slotted Plastic Pipe Underdrain

Conc. Barrier

18"x6' C.S.P.

18"x20' Slotted C.S.P.

18"x54' C.S.P.

R=4019'

(12)

(13) R=4038'

N 08°23'38"E 671.32'

Exist. Concrete Barrier

R=1620'

R=1600'

18"x20' Slotted C.S.P.

18"x6' C.S.P.

Energy Dissipator

A.C. Dike

Exist. A.C. Dike

Exist. R/W

12" E.T. ℄
12"x22' D.D.

115+79.54 B.C. (1947)

120+86.69 E.C. (1947)

127+65.79 B.C. (1947)

End Of Major Construction
Sta. 125+50

SUPERELEVATION

Rt. E.P. & Rt. Shldr. +3%
R=4019' Lt.
Lt. E.P.
Lt. Shldr. -5%

Lt. & Rt. E.P.

Rt. Shldr. -5%

Lt. E.P. & Lt. Shldr. +7%
R=1620 Rt.
Rt. E.P. & Rt. Shldr. -7%

80' V.C.

+5%
0%
-5%

Left Lanes
+3.48%
+3.28%
+2.98%
+2.34%
100' V.C.
200' V.C.
537.02
543.14
544.86
546.52
551.41
553.98
554.57
556.06
559.04
561.39

Right Lanes
+3.28%
+2.34%
+1.40%
+50 Conform
537.72
555.76
563.72
566.52

Left & Right Lanes

Profile Grade Is At L.O. ℄

	Sta.	115	6	7	8	9	120	1	2	3	4	125	6	7	8	9	130
Project Engineer G. L. Simms	Cu. Exc.	32	31	31	30	34	37	31	25	11	0	0					
Design Engineer J. A. Hanto	Yds. Emb.	34	45	47	56	25	10	25	29	33	7	0					

TOTALS	
1493	Loc. Borw.
1647	Rdwy Exc
2669	Rdwy Emb

Approval Recommended By M.W. Beckstead — Date — Dsgn.

FORM HD 90 PF

05201 218341 LO-5

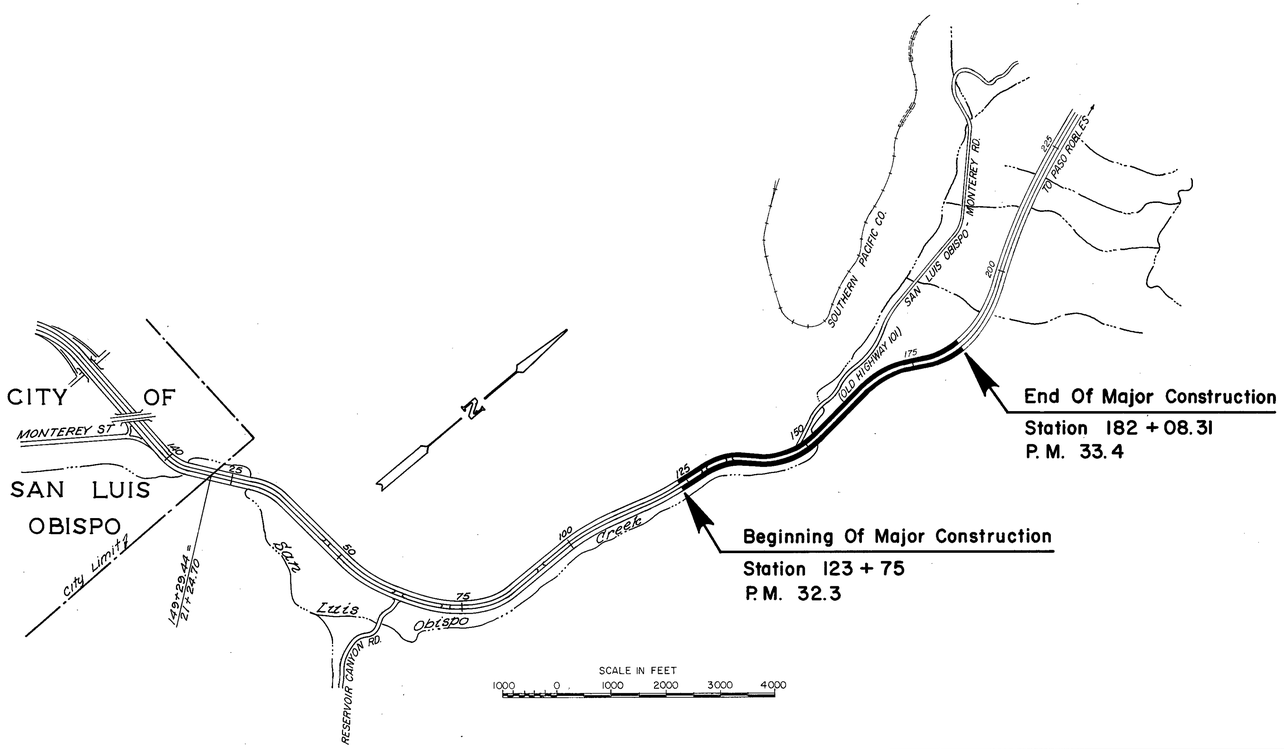
INDEX OF SHEETS

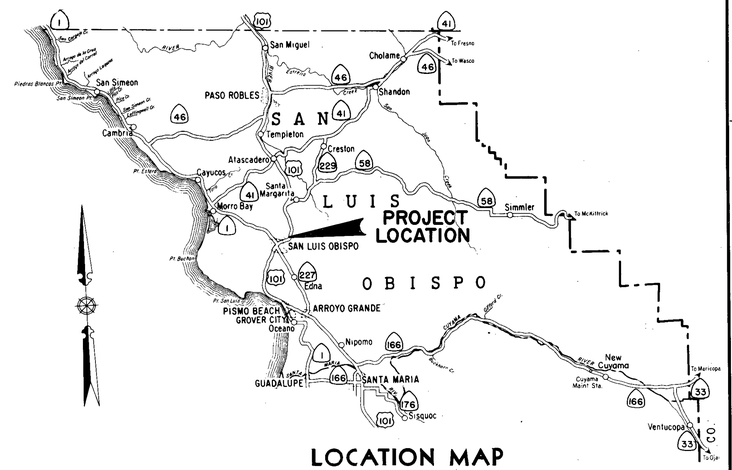
Dist.	County	Route	Post Miles	Sheet No.	Total Sheets
05	SLO	101			

DISTRICT DIRECTOR OF TRANSPORTATION
REGISTERED CIVIL ENGINEER NO 9237

DEPUTY STATE HIGHWAY ENGINEER
REGISTERED CIVIL ENGINEER NO. _____

DATE APPROVED _____





LOCATION MAP

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN SAN LUIS OBISPO COUNTY FROM 0.3 MILE SOUTH OF OLD HIGHWAY 101 TO 0.2 MILE NORTH OF RYAN'S GATE

Bids Open		Contract No.	

05201 218381

FORM NO. H-O-180 (2-71) (REVISED 5-72)

EST. 9015. 80456 500 2-71 3M OSP

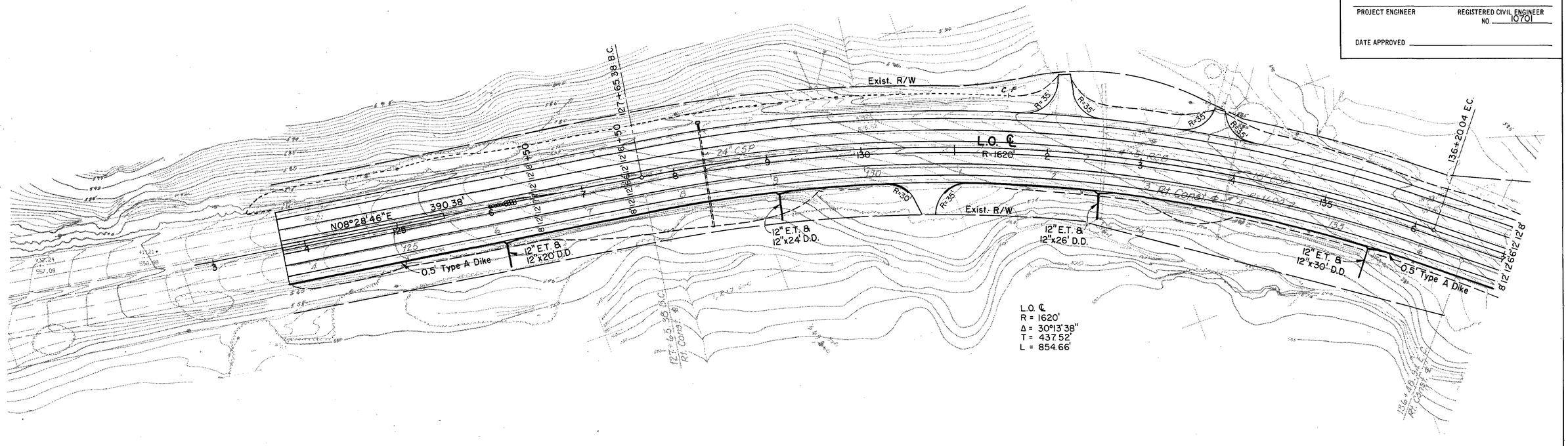
Project Engineer	Date	Design Engineer	Date	Approval Recommended By	Date

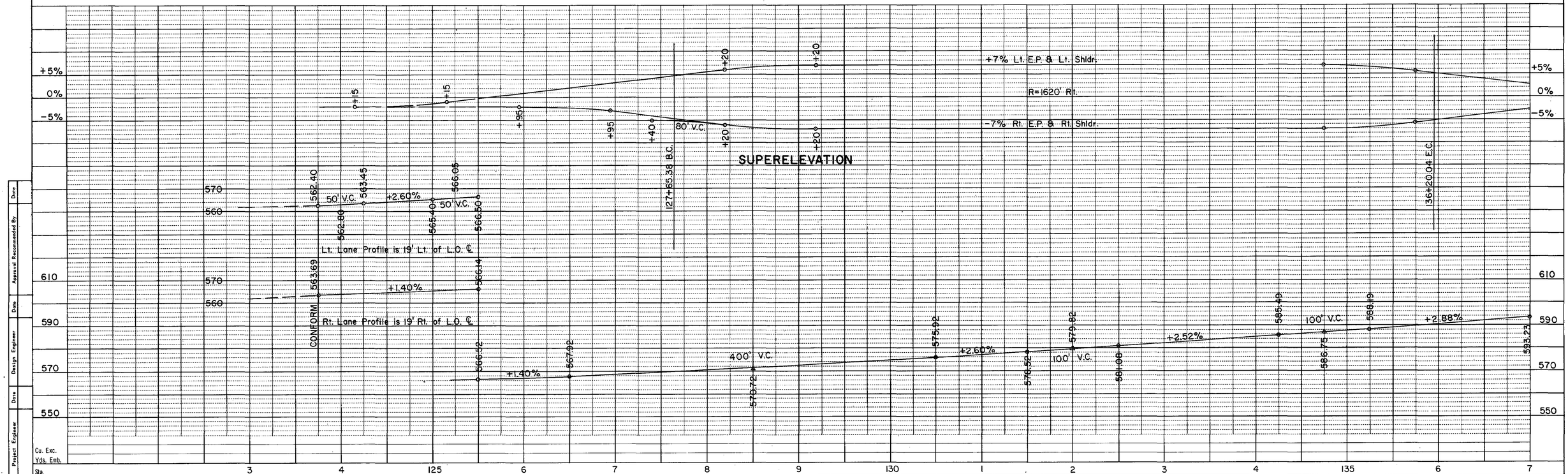
DIST.	COUNTY	ROUTE	POST MILES TOTAL	POST MILES PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101				

PROJECT ENGINEER

REGISTERED CIVIL ENGINEER
NO. 10701

DATE APPROVED





Project Engineer	Date	Design Engineer	Date	Approval Recommended By	Date

FORM HD 90 PF

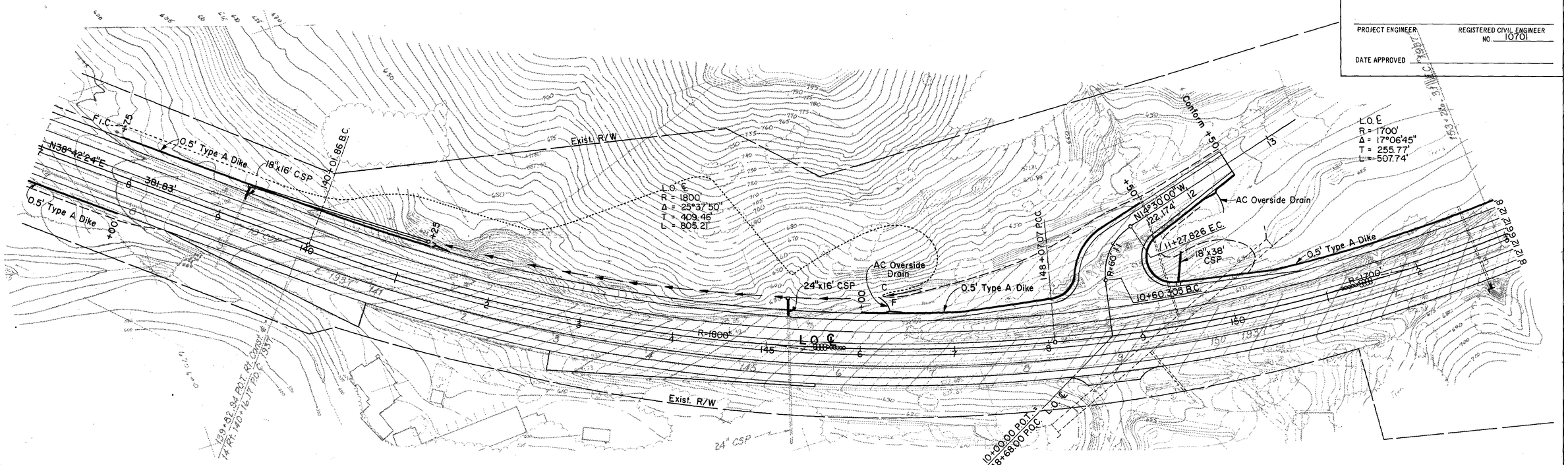
05201 218381 LO-1

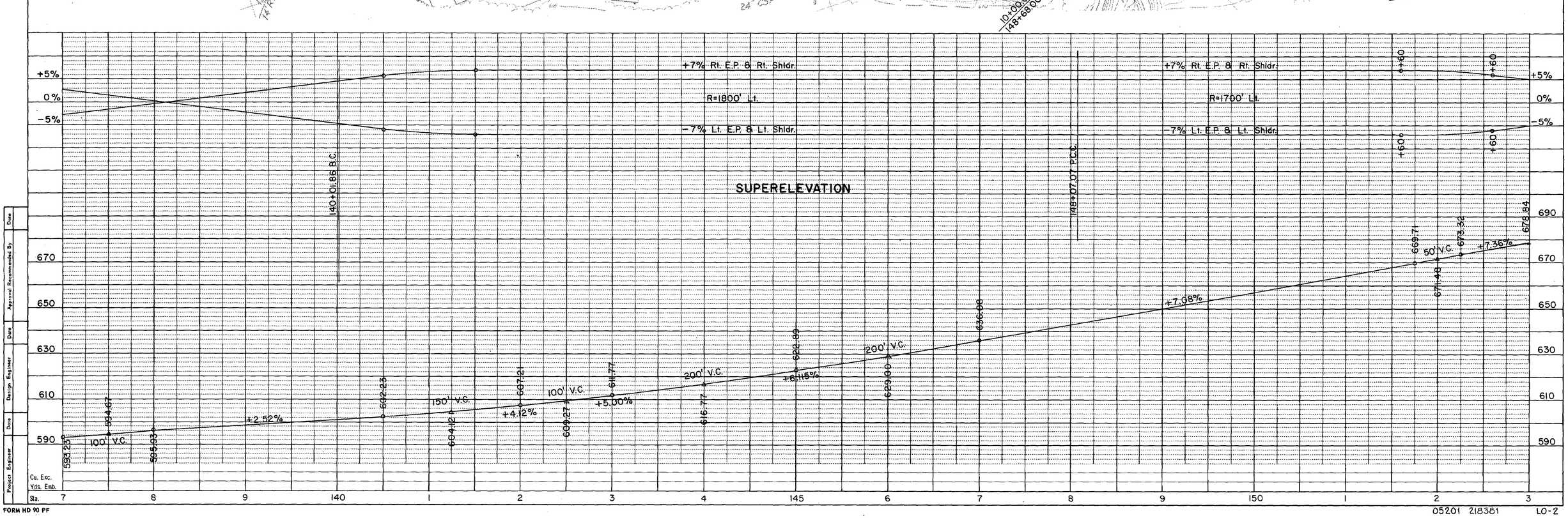
DIST.	COUNTY	ROUTE	POST TOTAL	MILES PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101				

PROJECT ENGINEER

REGISTERED CIVIL ENGINEER NO. 10701

DATE APPROVED





Date

Approval Recommended By

Date

Design Engineer

Date

Project Engineer

FORM HD 90 PF

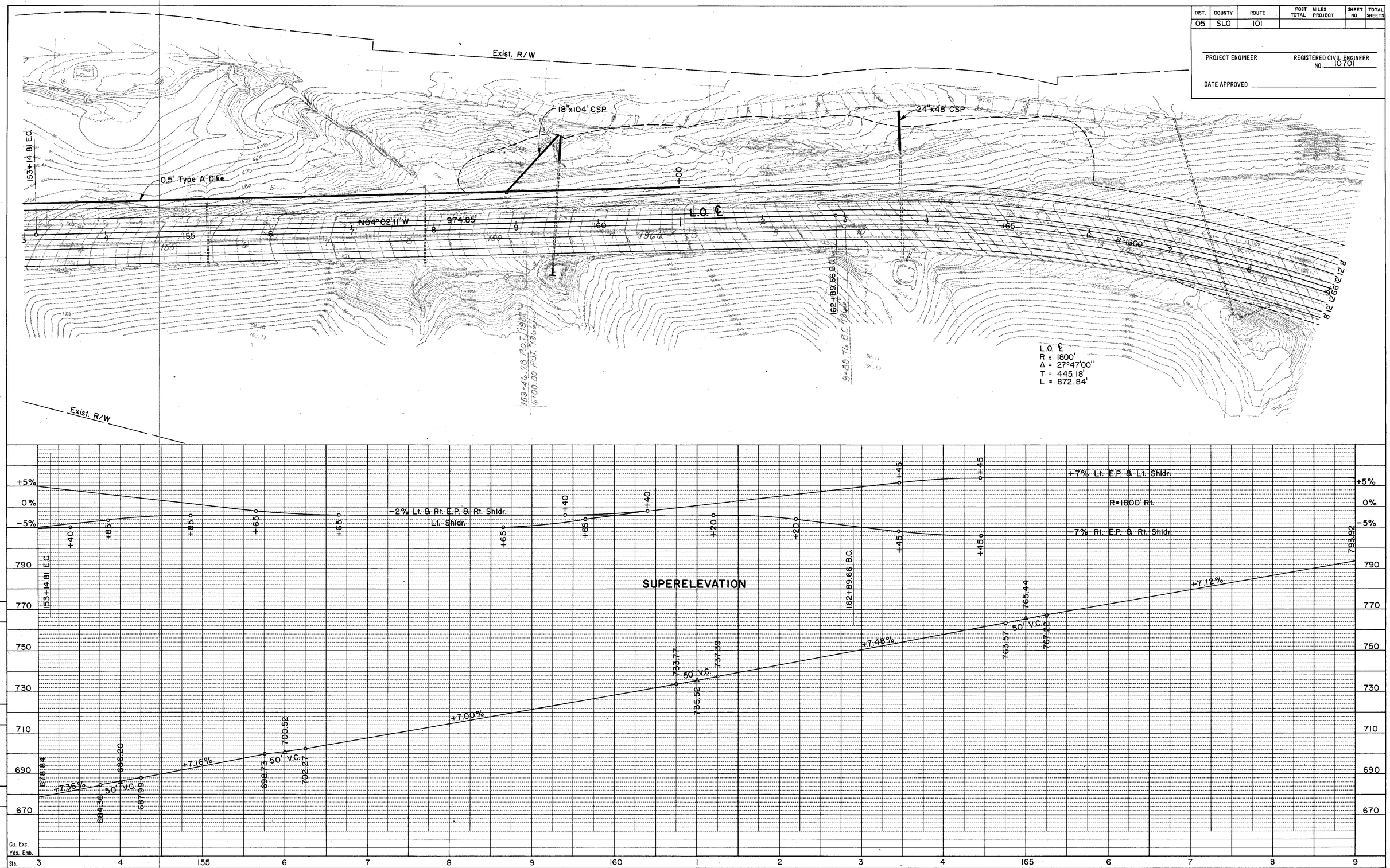
05201 218381 LO-2

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101			

PROJECT ENGINEER

REGISTERED CIVIL ENGINEER NO. 10701

DATE APPROVED



Project Engineer | Date | Design Engineer | Date | Approval Recommended By | Date

FORM HD 90 PF

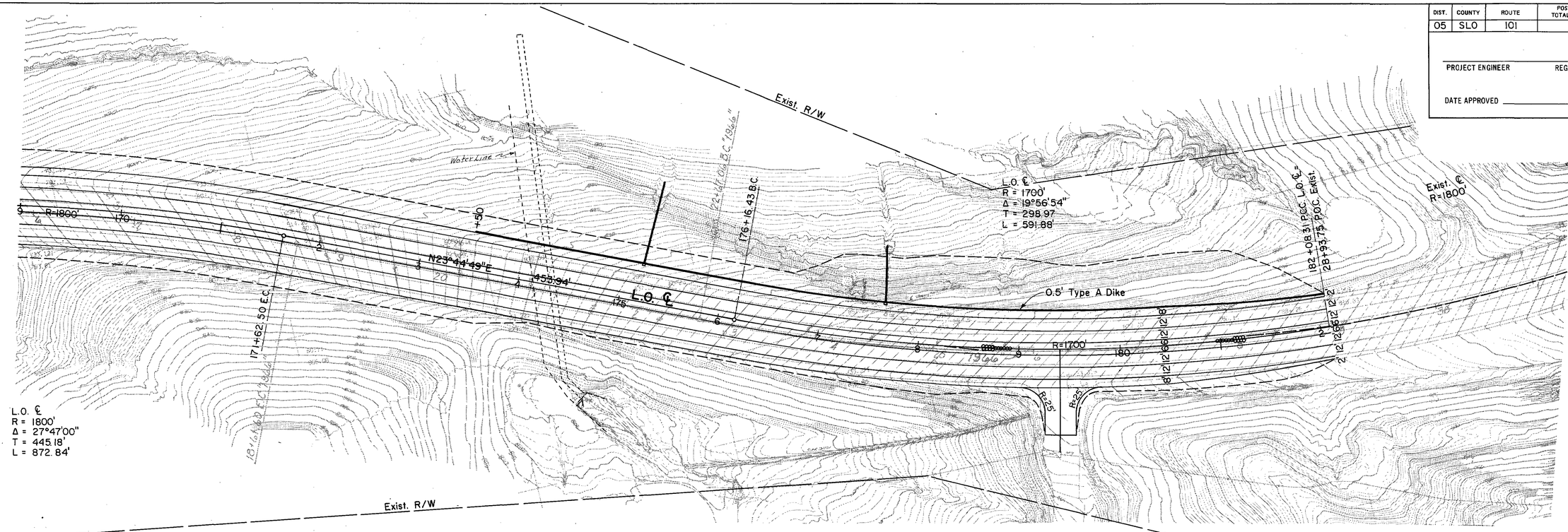
05201 218381 LO-3

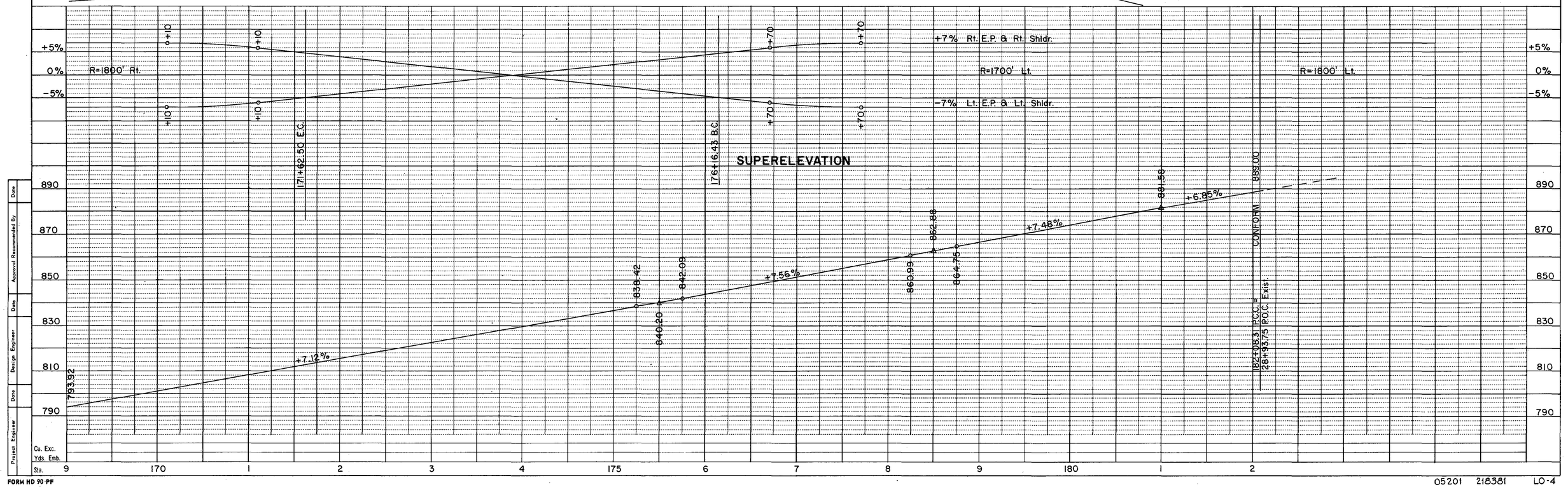
DIST.	COUNTY	ROUTE	POST TOTAL	MILES PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101				

PROJECT ENGINEER

REGISTERED CIVIL ENGINEER
NO. 10701

DATE APPROVED





Done

Approval Recommended By

Date

Design Engineer

Done

Project Engineer

FORM HD 90-PF

DIST.	COUNTY	ROUTE	POST MILE—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	101	R33.0 – 35.0	1	22

INDEX OF SHEETS

Sheet No.	1	Title Sheet
" "	2	Standard Plans List
" "	3	Typical Cross-Sections
" "	4 – 6	Plan and Profile
" "	7 – 14	Miscellaneous Construction Details
" "	15 – 20	Drainage Details
" "	21 – 22	Detours

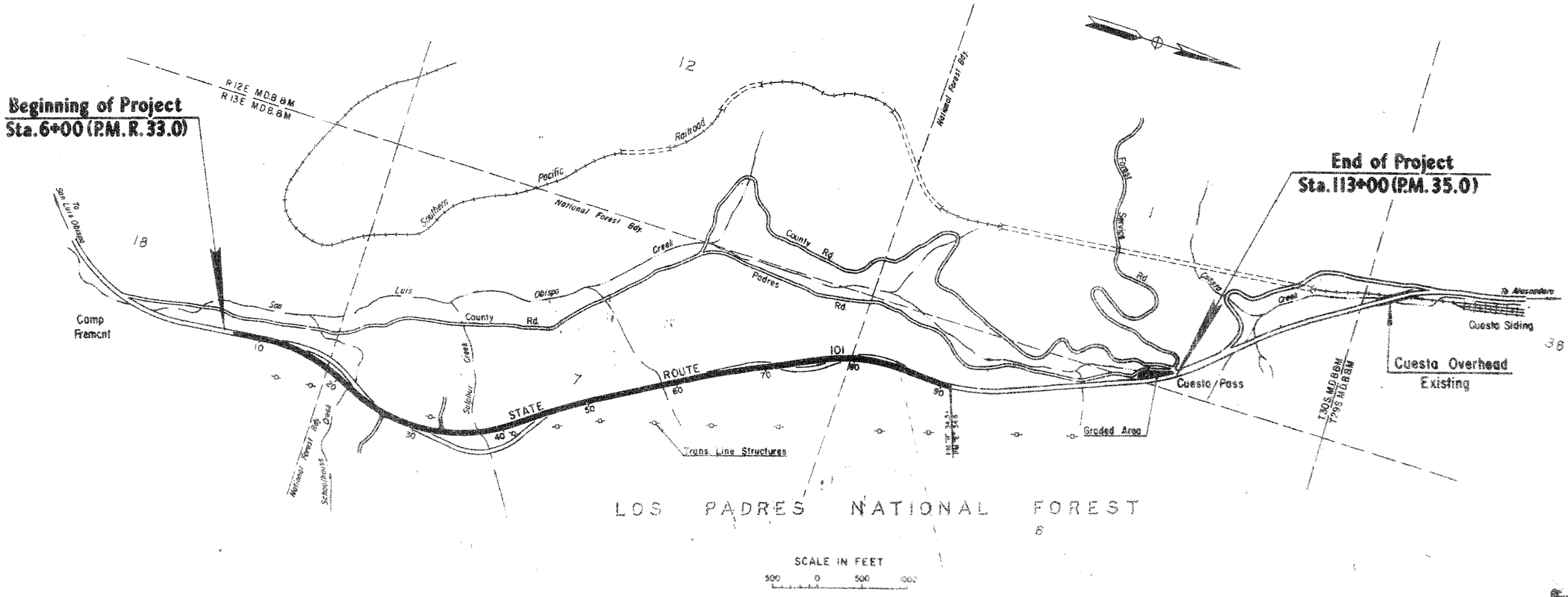
STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

In San Luis Obispo County between 2.5 miles north of San Luis Obispo and 0.5 mile south of Cuesta Overhead

To be supplemented by Standard Plans dated November, 1966
being the detail plans of a portion of the route for the
State highway adopted by the California Highway Commission
August 26, 1914

(Shows City's "Gravity" water line fr. Hansen/Gularti Creek)



AS BUILT PLANS
Contract No. 05-048204
Date Completed 5-2-68
Document No. 5000077

Approved Recommended
Approved December 19, 1966
J. C. Womack
State Highway Engineer
Registered Civil Engineer No. 5646

05-048204

Length of Project = 2.0 miles

5-2-68

Contract No. 05-048204

Project Engineer	Date	Design Engineer	Date	Approval Recommended by	Date

T. 30 S. R. 13 E. M. D. B. & M.
7 CALIF.
DIST. 05 COUNTY SLO ROUTE 101 SEC. R33.0 35.0 SHEET No. 4 TOTAL SHEETS 22
Dist. Eng. Dist. 05
Approved. December 19, 1966
Engineer of Design
Registered Civil Engineer No.
INDEX
See ↓ For ←
Layouts
Alignment
Profile
Superelevation
Drainage Plan
Property Fence
Survey Monuments
Guard Rail
Guide Markers
Existing Features
Quantity Summary - sheet 3
Misc. Details
Grading Requirements
Stabilization Trench
Minor Paving Areas
Roadway Retaining Block
Water Line Relocation
Cattle Pass
Drainage Structures
Drainage Details
Culvert Details
Underdrain Details
Drainage Summary
Detours
Stage Construction
Traffic Handling
Detour Details
BEGINNING OF PROJECT
STATION 6+00 (PM R33.0)
CONFORM @ Sta. 7+00.00
Milepost Markers
Two plate post mounts
Lt. & Rt. of Sta. 7+00
R32.98 EQ
32.98 EQ
Retaining Block
N 04°02'00" W 388.76'
A.C. Dike
9+88.76 B.C.
24" C.M.P.
18" C.M.P.
Note: On drainage, Ⓧ is reference to Drainage Details.
Gutter Paving
Exist. R/W
Exist. SLO-101
CCO #24
"L.O."
R = 1800'
Δ = 27°47'00"
T = 445.18'
L = 872.84'
18+61.60 E.C.
N 23°45'00" E 405.46'
22+67.06 B.C.
See Const. Details
Power Transmission Line
10" Water Line
City of San Luis Obispo
72" C.M.P.
Cattlepass, Plug & Abandon
Exist. 105" CMP
14" Ditch
Section Line
Join
198.47
277.29'
SYMBOLS
Guard Rail
Gutter Paving
6" Dike - Type A
Fence - Wood Post
Guide Marker - Type F
For complete R/W data see R/W record maps at District Office.
Coordinates, bearings and distances shown are on the California Coordinate System Zone 5. To obtain ground level distances, multiply distances shown by 1.00005974.
V. E. Wineman et ux
Manuel Garcia et ux
"L.O."
R = 1800'
Δ = 56°35'00"
T = 968.86'
L = 1777.62'
+50 161.30
18" C.M.P.
10+00.00 P.O.T. "E-1" = 26+26.00 P.O.C. "L.O."
10+45.00 "E-E" CONFORM
20' California Gate
Cattle Pass
CCO #18
CCO #10
8" CMP
Exist. 18" CMPs Plug & Abandon
Ditch
9+00.00 P.O.T. "E-1" CONFORM
24" C.M.P.
CCO #28
8" x 114' CMP
2' x 3' DI
CCO #20
+00 126.26'
Exist. Fence
33+48.00 P.O.C. "L.O." = 10+00.00 P.O.T. "E-E"
Exist. Horiz. drains
+10%
+5%
0
-5%
-10%
+7% Lt. Lanes & Shldr.
-7% Rt. Lanes & Shldr.
+7% Rt. Lanes & Shldr.
-7% Lt. Lanes & Shldr.
100' V.C.
SUPERELEVATION DIAGRAM
AS BUILT PLANS
Contract No. 05-048204
Date Completed 5-2-68
Document No. 50000077
1000
900
800
Ground Line at L.O. ℄
Profile Grade at L.O. ℄
+7.06%
+7.40%
400' V.C.
CONFORM
05-048204
5-02-68
LAYOUT
Cu. Exc.
Yds. Emb.
Sta.
41,398
6022
140,441
0
3648
28,853
12,229
24,546
2045
Project Engineer K.W. Jones 3-66
Design Engineer D.A. Crane 3-66
Approval Recommended By R.A. Lejonhud 3-66

DIST.	COUNTY	ROUTE	SEC	SHEET No.	TOTAL SHEETS
05	SLO	101	R33.0 R35.0	5	22

195 atal

Dist. Eng. Dist. 05

Approved December 12 1966

Engineer in Charge
Registered Civil Engineer No. 9837

T. 30 S. R. 13 E. M. D. B. & M.

Grid N
True N
129.37"

Manuel Garcia et ux

Exist Horiz. Drains

Milepost Markers
Lt & Rt of sta. 61+01±
R 34.00

Drainage Easement

Exist R/W

Exist Fence & R/W

Stabilization Trench

Exist Horiz. Drains

Exist Fence Arrgt. CCO=16

A.C. Dike

N 38°50'00" W 400.00'

"A" Ditch

Exist 18" CMP, Plug & Abandon

8" CMP

Exist 8" CMPs Plug & Abandon

Riser

Center Paving

Join

Exist R/W

Exist SLO-101

Relocate 14' Metal Gate

Power Transmission Line

Type W.M. Fence
All other Fc. Type B.W.
CCO=18

Exist Fence

Milepost Markers
Lt & Rt of sta. 34+61±
R 33.50

"L.O."
R=1800'
Δ=52°35'00"
T=868.86'
L=1777.62'

"L.O."
R=10,000'
Δ=06°10'00"
T=363.77'
L=721.22'

"L.O."
R=10,000'
Δ=05°30'00"
T=484.91'
L=959.02'

NE 8°40'00" W 1017.51'

Manuel Garcia et ux

SUPERELEVATION DIAGRAM

+10%
+5%
0
-5%
-10%

+7% Rt Lanes & Shldr.
-7% Lt Lanes & Shldr.
-5% Rt Shldr.
+5% Lt Shldr.
-5% Rt Lanes
+5% Rt Shldr.

1000
1100
1200

400' V.C.

Profile Grade of L.O. ℄
+7.40%

Ground Line of L.O. ℄

+6.36%

C.Y. Exc.	18,366	18,366	14,326	4140	1336
Cys. Emb.	158,804	131,644	1015	132	48
Sta.	34 35 6 7 8 9 40 1 2 3 4 45 6 7 8 9 50 1 2 3 4 55 6 7 8 9 60 1 2 3 4 65 66				

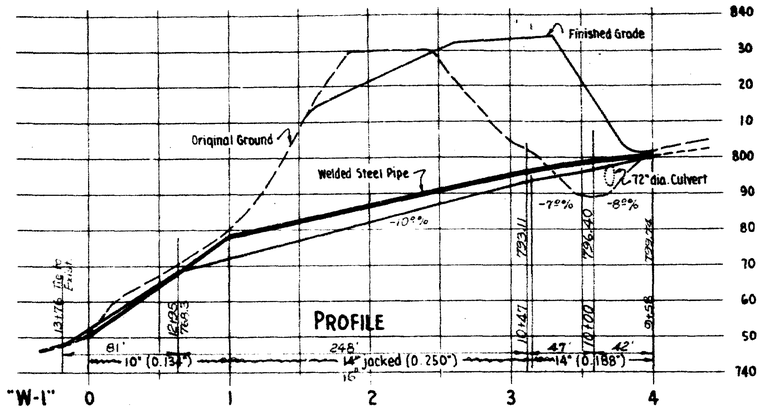
C.Y. Exc.	308	24,117	2134
Cys. Emb.	205	70	78

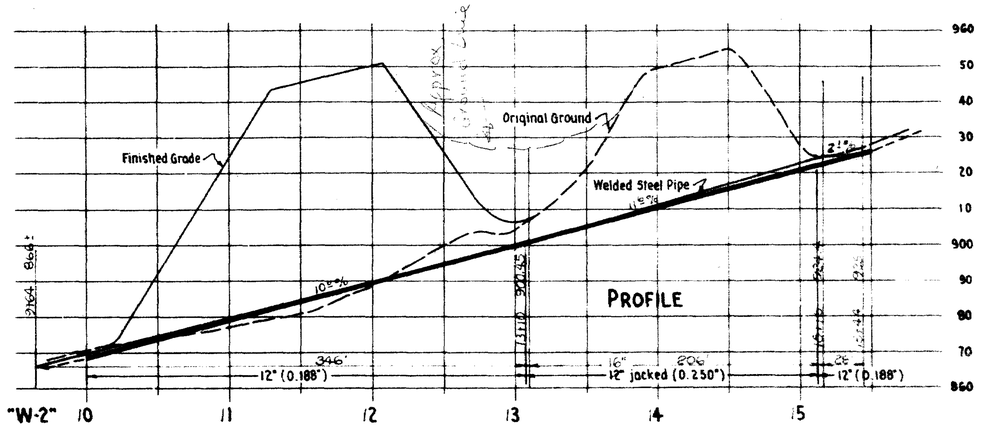
AS BUILT PLANS
Contract No. 05-048204
Date Completed 5-2-68
Document No. 50000077

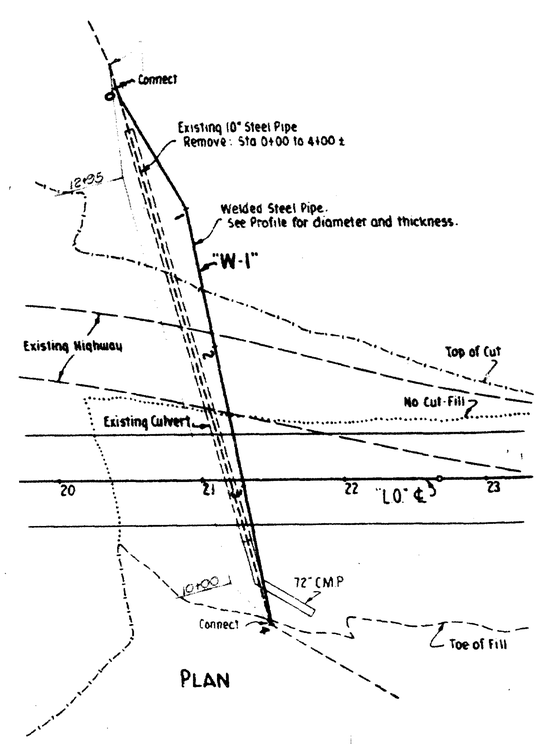
05-048204
5-02-68

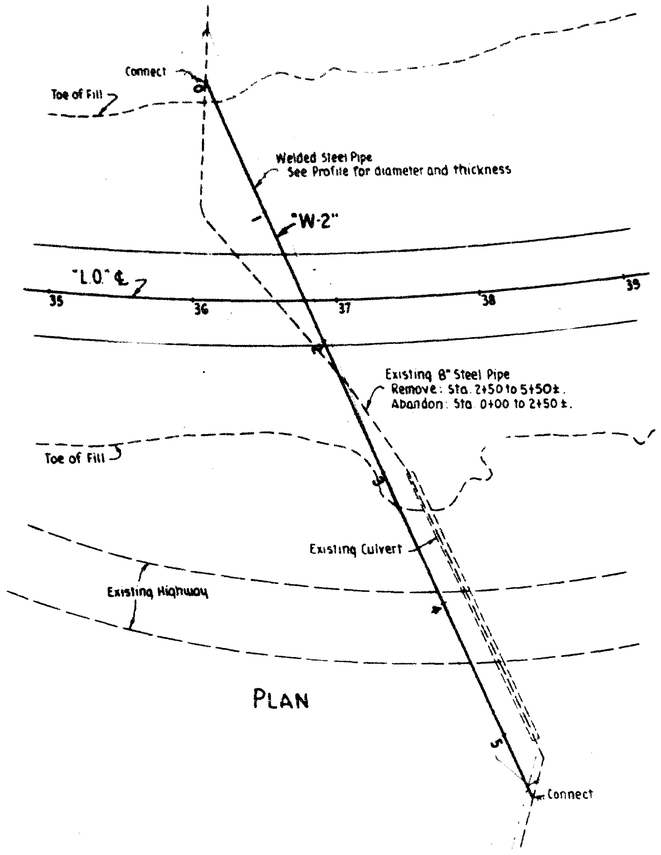
LAYOUT

Project Engineer	Date	Design Engineer	Date	Approved Recommended By	Date
K.W. Jones	3-66	D.A. Crane	3-66	R.A. Lejonhud	3-66









APPROXIMATE QUANTITIES

Jacked 14" welded steel pipe (0.250" thickness)	248 ft.
Jacked 12" welded steel pipe (0.250" thickness)	206 ft.
14" welded steel pipe (0.188" thickness)	89 ft.
12" welded steel pipe (0.188" thickness)	348 ft.
10" welded steel pipe (0.134" thickness)	184 ft.
Structure Excavation	150 c.y.
Structure Backfill	135 c.y.

AS BUILT PLANS
Contract No. 05-048204
Date Completed 5-2-68
Document No. 50000077

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
05	SLO	101	P.330/350	12	22

APPROVED December 19, 1966

Engineer of Water
Registered Civil Engineer No. 9837

05-048204

5-02-68

Water Line Relocation

MISCELLANEOUS DETAILS

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Project Engineer	Date	Design Engineer	Date	Approval Recommended By	Date
K.W. Jones	3-66	D.A. Crane	3-66	R.A. Lejonhud	3-66

not required because the toe of embankment caught inside the end of the existing pipe.

In accordance with an agreement with the City of San Luis Obispo dated April 22, 1947, 256 lineal feet of 24" corrugated metal pipe was placed at Station 27+ to facilitate the placing of such future water lines as the City may require under the highway at this location.

As a part of the revision of drainage facilities mentioned earlier in this report, 226 lineal feet of 24" corrugated metal pipe was placed as an extension on the outlet of the 24" corrugated metal pipe right of Station 5+50 across an easement over private property to discharge the flow into an open channel on State property.

30" Corrugated Metal Pipe (14 Gauge). Thirty inch corrugated metal pipe was placed as planned except the planned installation was moved from Station 62+05 to Station 62+13.3.

36" Corrugated Metal Pipe (12 Gauge). The one installation of 36" corrugated metal pipe was placed as planned except that the installation was made at Station 40+36 in lieu of Station 40+50 to better fit the terrain.

Salvaging Existing Pipe Culverts. This work was performed as planned except that at Station 118+33, 25.5 lineal feet was salvaged in lieu of the 30' planned to be salvaged; and at Station 128+34 the pipe which was removed was found to be unsuitable for reuse.

Relaying Salvaged Corrugated Metal Pipe Culverts. At Station 118+33, 25.5 lineal feet of pipe was salvaged

10" Welded Steel Pipe. The work of this item was performed under a subcontract by the Pacific Pipe-line and Engineers Ltd. Some of the city water mains were not at the locations indicated on the layouts, requiring that exploration be made for them. This exploration work was paid for as force account work. At Station 87+25, where it was proposed to connect the new pipe to the existing pipe, the existing pipe was found to lie directly under the proposed new right lane and at a depth of approximately 12'. In order to connect to the existing pipe, outside of the road bed the new pipe was extended back to Station 85+00 and connected at that point.

The planned crossing of the new 10" pipe at Station 87+50 was relocated to Station 91+67 where the pipe was placed in a conduit within a hole bored under the existing pavement in lieu of constructing the planned open ditch for its installation. This afforded greater convenience and safety to public traffic.

The required hydrostatic pressure tests were made with a pressure pump rented from the Union Oil Company and at other times when that pressure pump was not available, with oxygon tanks.

14" Welded Steel Pipe. The work of this item was performed under subcontract by the same company that installed the 10" welded steel pipe.

The work was performed as planned with the exception that in order to maintain water service and fire protection to the City of San Luis Obispo it was found

necessary to install a gate valve in the existing water line. The installation of the gate valve was made by the City of San Luis Obispo Water Department under service agreement No. 5504-E.

15" Corrugated Metal Pipe Conduit (16 Gauge).

The work of this item was performed under subcontract by the Pacific Pipeline and Engineers, Ltd.

Under an encroachment permit the City of San Luis Obispo extended the planned 15" corrugated metal pipe conduit installation with a 15" well casing under the existing pavement, welding the 15" metal pipe and the well casing at their connection.

The planned installation at Station 71+50 across the existing lanes was moved to Station 73+71 to better the line and grade of the existing water main.

As mentioned under 10" welded steel pipe the planned installation under the existing left lane at Station 87+50 was moved to Station 91+67 and the conduit was installed in a hole bored under the lanes rather than in an open ditch.

This relocation of the conduit, besides avoiding a serious traffic hazard, also effected a saving of 52 lineal feet of conduit at this location.

18" Corrugated Metal Pipe Conduit (16 Gauge).

This work was also performed under subcontract by the Pacific Pipeline and Engineers, Ltd.

The planned installation at Station 13+75 was relocated to Station 13+79 to better fit the ground.

The planned installation at Station 29+70 was relocated to Station 29+75 where the conduit was installed parallel to the existing 14" water main at the request of the City of San Luis Obispo. The City desired to keep the existing main in continuous service and thread a new pipe through the conduit and connect it to the existing main only in the event of failure of the existing main.

The planned installation at Station 14+80 was eliminated and in lieu thereof, a 14" cast iron pipe furnished by the City of San Luis Obispo was installed at Station 48+85. The existing main was left intact and in service to be treated the same as the installation at Station 29+75 in the event of failure.

1½" Galvanized Pipe. The work of this item was performed under subcontract by the Pacific Pipeline and Engineers, Ltd.

The right of way agreement required that the 1½" galvanized steel pipe be connected to the existing water line at Station 95+68 in place of at Station 93+00 as planned.

On exposing the existing pipe line at Station 104+00 it was found to be in such poor condition that it could not be adjusted as contemplated. It was necessary to replace this pipe line with new 1½" galvanized steel pipe. Where this pipe crosses the channel change a cable support had to be provided because of the length of span to maintain a uniform gradient. The low pressure in

the main feeding this service pipe line and silt carried in the water require that the pipe line have a uniform gradient to lessen possibility of it silting up.

Structure Excavation, Conduits. The work of this item was performed under subcontract by the Pacific Pipeline and Engineers, Ltd.

Trenches were excavated by a trenching machine and drag line supplemented by hand labor. Backfill was compacted by hand labor with pneumatic tampers at all locations except at Station 54+10 where sand was used for backfill and inundated to obtain compaction to within 1' of subgrade. The upper 1' was placed in 4" layers and compacted with pneumatic tampers.

C. Chronological Statement

Bids Received	June 4, 1947
Contract Awarded	June 20, 1947
Contract Approved	July 8, 1947
Work Started	July 7, 1947
Work on Arch Culvert Started	July 23, 1947
Rough Grading Started	July 25, 1947
Installation of Pipe Culverts Started	August 8, 1947
Locating Water Lines Started	August 8, 1947
Fence Work Started	August 18, 1947
Pacific Pipeline and Engineers, Ltd., Began Excavation for the Installation of Water Lines	August 25, 1947
Sacked Concrete Riprap Started	September 29, 1947
Subgrading Started	November 6, 1947